

JVC

SERVICE MANUAL

MODEL

RC-717L,LB

FM-LW-MW-SW
4-BAND RADIO
STEREO CASSETTE
RECORDER



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Specifications

DIMENSIONS : 22.0cm(H) x 41.0cm(W) x 11.4cm(D)
 8¹/₂" x 16¹/₈" x 4¹/₂"

WEIGHT : Approx. 4.7 kg (with batteries)
 10.3 lbs.

TUNER SECTION

Frequency Ranges	: FM 88 ~ 108MHz LW 150 ~ 350kHz MW 540 ~ 1600kHz SW 6 ~ 18MHz
Intermediate Frequencies	: FM 10.7MHz LW/MW/SW 455kHz

Output Jacks

: Ext. Speaker x 2 (4Ω)
Headphones (8Ω)
: Input Imp.; less than 4kΩ
Output Imp.; less than 10kΩ

RECORDER SECTION

Tape Speed	: 4.75cm/s (1-7/8 ips)
Track System	: 4-track 2-channel stereo
Recording System	: AC Bias
Erasing System	: AC Erasing
S/N Ratio	: More than 46dB at 1kHz
Fast Forward Time	: Within 100 sec. (C-60 cassette)
Rewinding Time	: Within 100 sec. (C-60 cassette)
Wow & Flutter	: 0.15% (WRMS)

SEMICONDUCTORS

ICs	: 2
Transistors	: 30
Diodes	: 32

AMPLIFIER SECTION

Speakers	: 12cm (5") x 2 4Ω
Power Output	: Max. 5.0 (2.5 + 2.5)W (DC)
Input Jacks	: MIC x 2 (0.8mV, low imp.)

POWER SOURCE

DC	: 9V 6 "R20" cells or equivalent
AC	: 110/220/240V 50/60Hz (L) 240V 50/60Hz (LB)

Main Parts Location

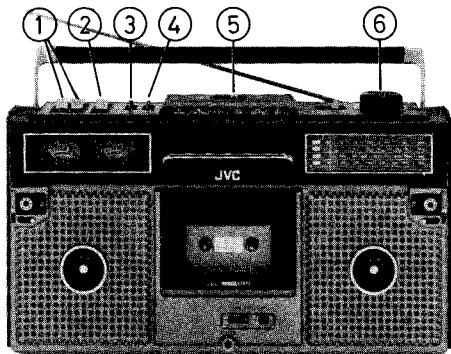


Fig. 1

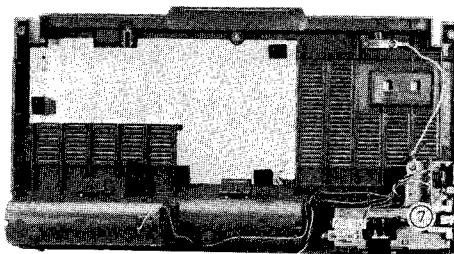


Fig. 2

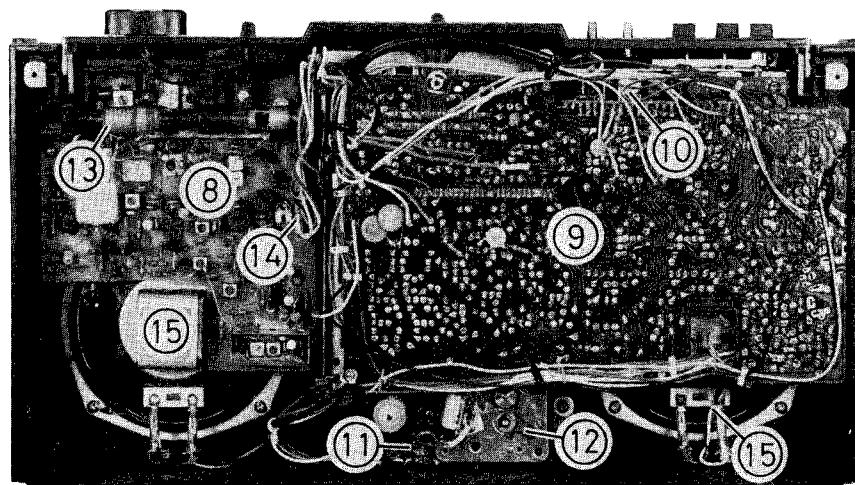


Fig. 3

Ref. No.	Parts No.	Parts Name	Description
1	* V44900-002	Knob	Volume
2	* V44900-002	"	Tone
3	V44580-001	Lever Cap	Mode/Meter
4	V44580-001	"	Tape
5	* V44898-002	Knob	Function (Removable)
6	* VXP240-30020	"	Tuning
7	*	Power Supply Ass'y	Tuner
8	*	Circuit Board Ass'y	Amplifier
9	*	"	Control
10	*	"	Headphone
11	*	Cassette Mechanism	
12		Bar Antenna Ass'y	L10, 11
13	VQB012B-006	Socket Ass'y	6-pin
14	QMC0659-001		
15	EAS12P89SE	Speaker	

Note: 1. Asterisked parts (*) show "NEW PARTS". Other parts are all "CURRENT PARTS"; therefore, check your inventory and order situation before placing new order to avoid making extra stock.
 2. The circuit board assemblies and whole assembly of cassette mechanism in this model will not be available as spare parts.

Disassembly & Replacement

Rear Cabinet (Refer to Fig. 4)

1. Remove 6 screws (1)~(3):SDSP3020RS and (4)~(6):SDSB3020R.
2. Disconnect 4 connecting wires from rod antenna (White), right speaker (Black), negative (Black) and positive (Red) terminals of power supply section.

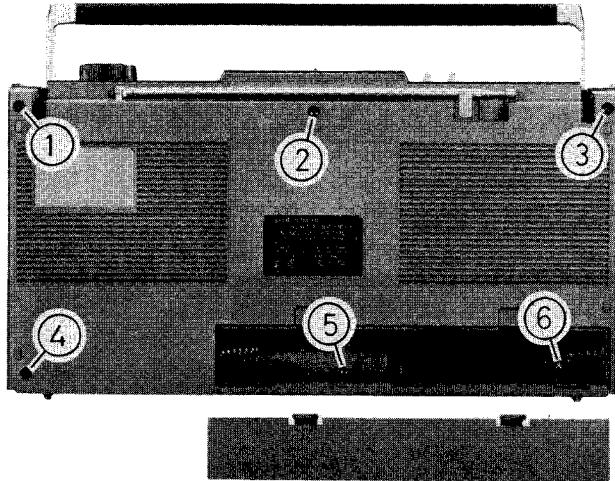


Fig. 4

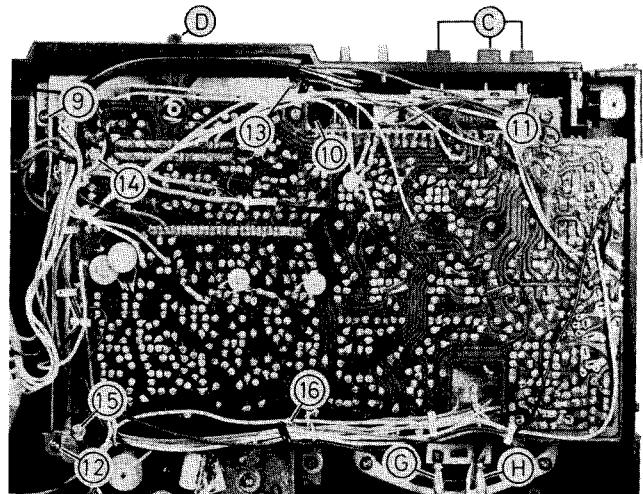
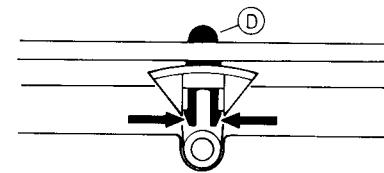


Fig. 6

Tuner Section (Refer to Fig. 5)

1. Take off tuning knob (A).
2. Disconnect the 6-pin socket from the amplifier section.
3. Remove 2 screws (7) & (8):SBSB3008Z.

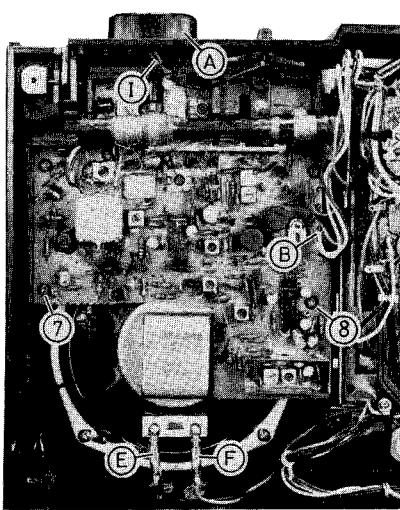


Fig. 5

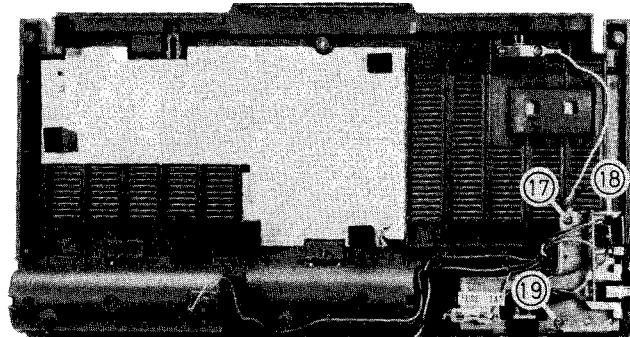


Fig. 7

Cassette Mechanism Section (Refer to Figs. 5 & 6)

1. Take off volume and tone control knobs (C).
2. Pull up the function switch knob (D) by pressing the arrow positions.
3. Disconnect 4 speaker cords : Black (E) & Red (F) of right speaker and Blue (G) & White (H) of left speaker, and the connector (I).
4. Remove 4 screws (9)~(12):SBSB3010Z.
5. Then the mechanism section can be turned over to the tuner section.

Pinch Roller Ass'y (K) (Refer to Fig.8)

Remove the E-ring (20): REE1900.

Play/record Head (L) (Refer to Fig. 8)

Remove 2 screws (21):SPSP2011Z and (22):SPSX2006Z.

Erase Head (M) (Refer to Fig. 8)

Remove 2 screws (23):SPSP2011Z.

Revol Idler (N) (Refer to Fig. 8)

Remove the E-ring (24):REE1500.

Take-up (O) and Supply (P) Reel Disk (Refer to Fig.8)

Remove the E-ring (25):REE1200.

Main Belt (Q) (Refer to Fig. 9)

1. Remove the screw (26):LPSP2605Z.

2. Remove the flywheel bracket (R).

Motor (S) (Refer to Fig. 9)

Remove 3 screws (27):SPSP2607Z.

F.F. Idler Ass'y (T) (Refer to Fig. 9)

1. Remove the flywheel bracket (R).

2. Detouch 3 springs (U), (V) & (W).

3. Remove the E-ring (28):REE4000.

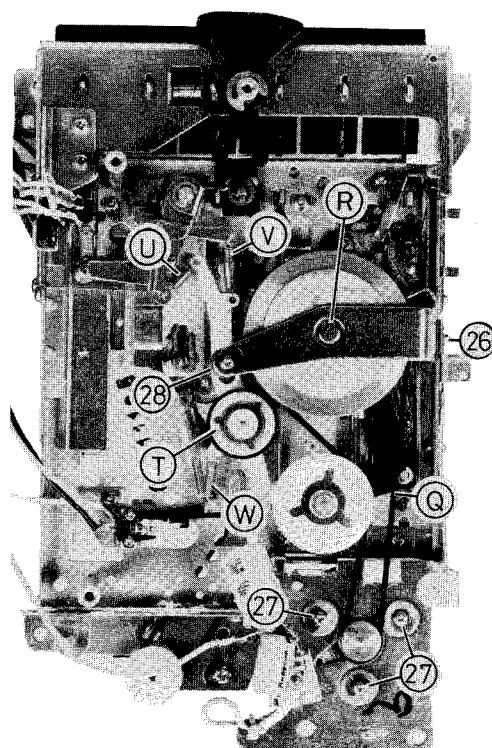


Fig. 9

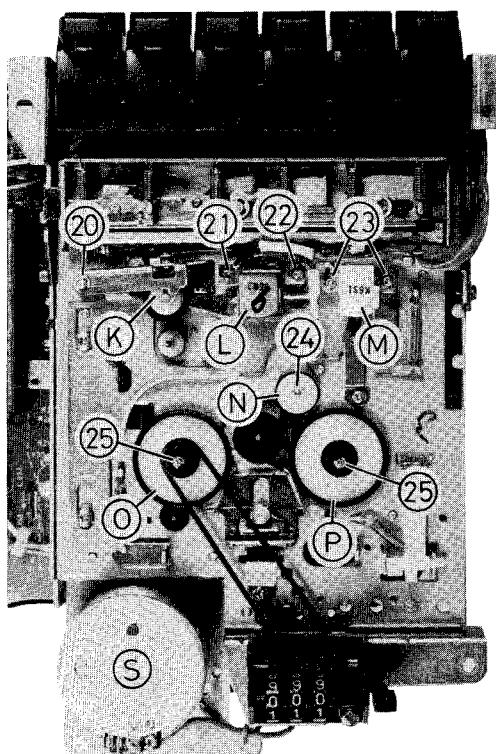


Fig. 8

How to Fit Dial Cord

1. Fit cord in accordance with the arrow mark while setting the variable capacitor on minimum.
2. Cord length $\phi 0.6 \times 895\text{mm}$.

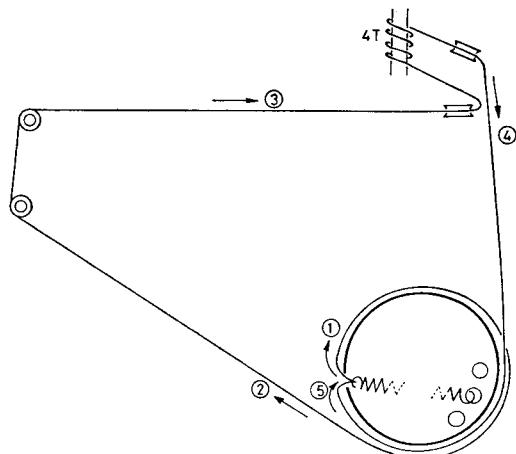


Fig. 10

Tuner Alignment

Output Measuring: Speaker terminal (Impedance = 4Ω), output level 50mW (0.45V/ 4Ω)

AM IF & RF Alignment

Input (SSG) Modulation 400Hz, Modulated to 30%

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	MW (IF)	455kHz	Loop Antenna	L15, 16, 17	Minimum
2		Repeat the Step 1, and adjust for no further improvement.			
3		520kHz	Loop Antenna	L13	Maximum
4		1650kHz		C12	Minimum
5		Repeat the Steps 3 & 4.			
6		600kHz	Loop Antenna	L10	600kHz Signal
7		1400kHz		C7	1400kHz Signal
8		Repeat the Steps 6 & 7, and adjust for no further improvement.			
9	LW	145kHz	Loop Antenna	L14	Maximum
10		360kHz		C10	Minimum
11		Repeat the Steps 9 & 10.			
12		160kHz	Loop Antenna	L11	160kHz Signal
13		350kHz		C8	350kHz Signal
14		Repeat the Steps 12 & 13, and adjust for no further improvement.			
15		5.8MHz	Rod Antenna through Dummy Antenna	L12	Maximum
16		18.6MHz		C11	Minimum
17	SW	Repeat the Steps 15 & 16.			
18		6.0MHz	Rod Antenna through Dummy Antenna	L9	6.0MHz Signal
19		18.0MHz		C9	18.0MHz Signal
20		Repeat the Steps 18 & 19, and adjust for no further improvement.			

FM IF & Discriminator Alignment

1. Connect a sweep generator to the test points TP3 (Hot) and TP2.
2. Connect a oscilloscope to the test points TP7 (Hot) and TP8.
3. Align the L20 so that the response of S-curve will change to a peak. (Refer to Figs. 11 & 12.)
4. Align the L7, 18, 19 & 23 so that the wave form will become maximum and symmetrical at the centre frequency.
5. Align the L20 so that the S-curve will become symmetrical and maximum. (Refer to Fig.13.)

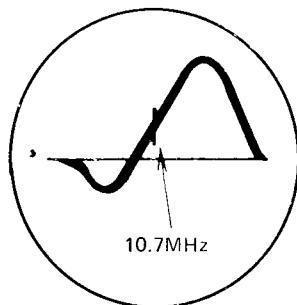


Fig. 11

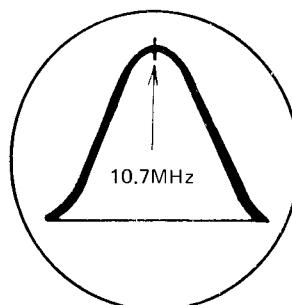


Fig. 12

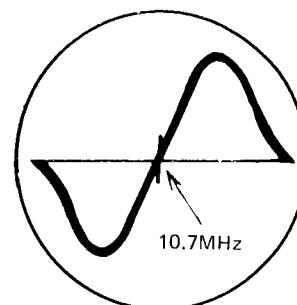


Fig. 13

FM RF Alignment

Input (SSG): Use 75Ω terminal, modulation 400Hz modulated to 22.5kHz deviation.
Connect Hot side to TP1 and Cold side to TP2.

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to	
		Frequency	Given to			
1	FM	87.5MHz	TP1 & TP2 (Refer to Fig. 14)		L6 Maximum	
2		109MHz			C6 Minimum	
3		Repeat the Steps 1 & 2.				
4		90MHz	TP1 & TP2 (Refer to Fig. 14)	L4	90MHz Signal	
5		106MHz		C5	106MHz Signal	
6		Repeat the Steps 4 & 5, and adjust for no further improvement.				

FM MPX Alignment

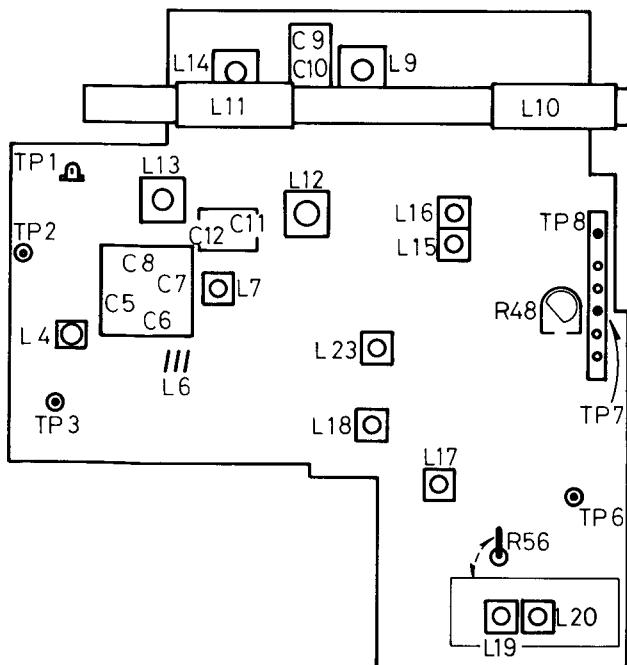
A. Regular Method

1. Connect a frequency counter to the test points TP6 (Hot) and TP8 (Cold).
2. Connect the lead of R56 to the case of L19.
3. Adjust the variable resistor R48 so that the frequency becomes $19\text{kHz} \pm 250\text{Hz}$.

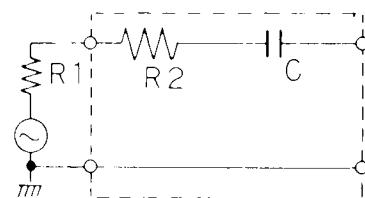
B. Simplified Method

1. Tune to a FM stereo broadcast.
2. Set the variable resistor R48 to a centre position of the range where the stereo indicator keeps lighting.

Parts Arrangement for Alignment



Dummy Antenna



$R_1 + R_2 = 80\Omega$
 $C = 10\text{pF}$
R1: Output impedance of S.S.G.

Fig. 15

Fig. 14

Adjusting Recording Bias

Bias Frequency

1. Connect a frequency counter across A-B or C-D.
2. Set the BEAT CUT switch to lower position.
3. Adjust the oscillator coil L401 so that the counter indicates 71kHz.

Bias Current

1. Connect a V.T.V.M. across A-B and C-D.
2. Adjust the variable resistor R254(L) and R354(R) so that the voltage becomes 5mV (500 μ A/10 Ω).

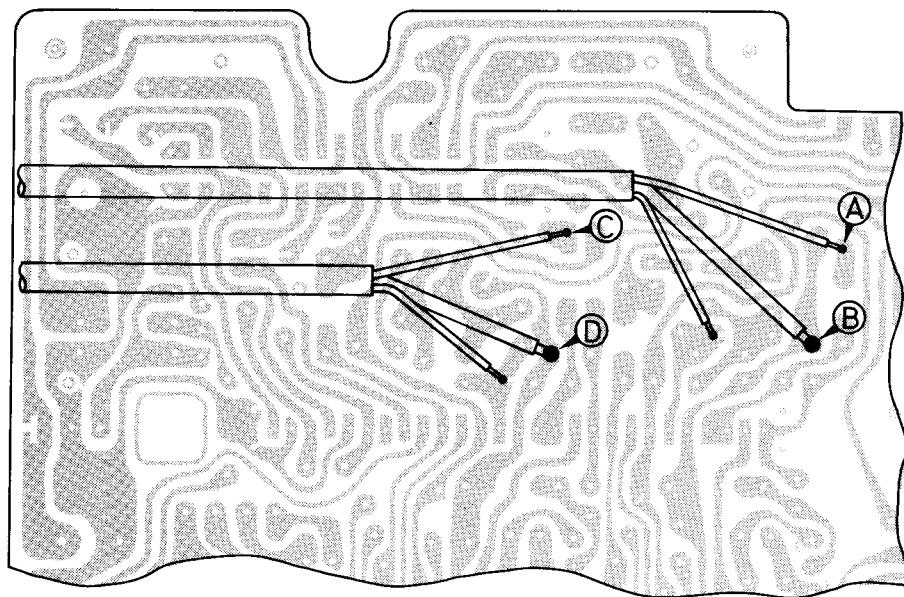


Fig. 16

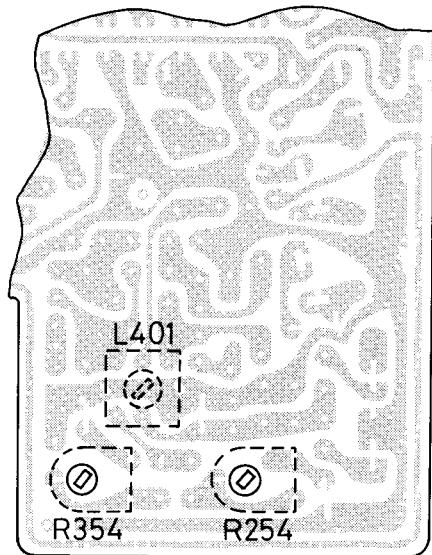


Fig. 17

Adjusting Head Azimuth

1. Connect a V.T.V.M. Across the speaker terminal.
2. Set the MODE switch to MONO.
3. Playback the test cassette for azimuth adjustment.
4. Adjust the head angle for maximum output.

Note: The output voltage shows three peaks while adjusting head angle as illustrated on the right, adjust for maximum peak.

5. Check that the output difference between MONO and STEREO is within 4dB.

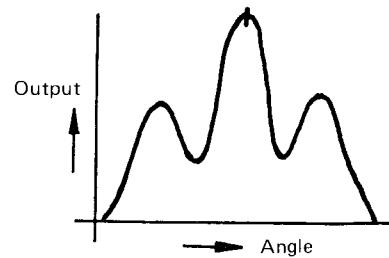


Fig. 18

Adjustment of Cassette Mechanism

Timing of Auto Stop Motion

1. The auto stop mechanism should function at the moment when the tip of stop detect contact has been moved within 0.5 to 1.8mm in the playback mode.
2. If the timing is more than 1.8mm, bend the part (A) of stop detect lever to the B direction. If it is less than 0.5mm, bend the part (A) to the C direction.

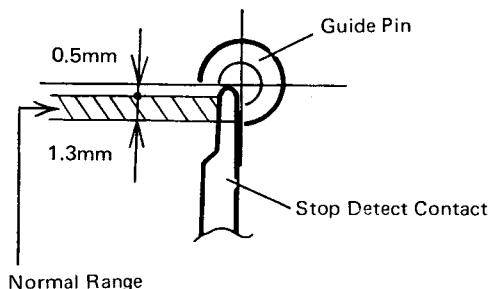


Fig. 19

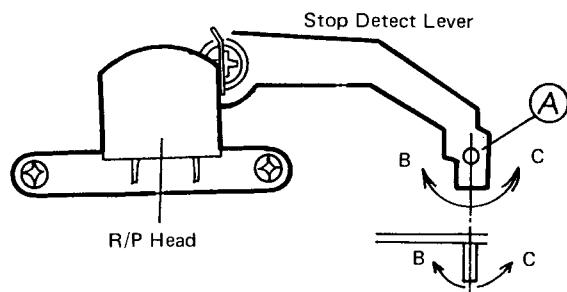


Fig. 20

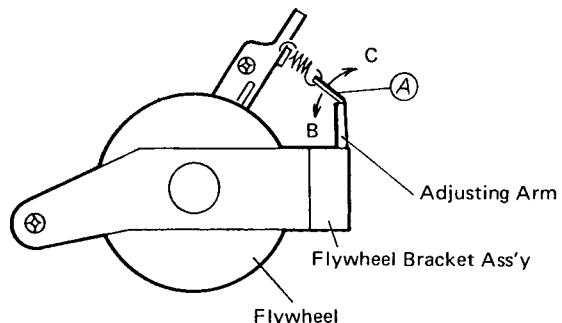
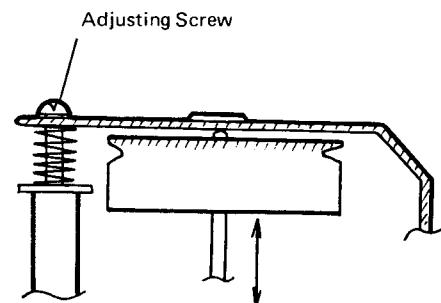


Fig. 22

Thrust of Flywheel

The clearance between the top of flywheel shaft and the flywheel bracket should be within 0.2 to 0.4mm. If the clearance is beyond the limits, adjust the screw for normal value.

Note: After adjustment, fix the screw with lock adhesive.



Detection pressure of Auto Stop Mechanism

1. Setting the mechanism vertically in the playback mode, the auto stop mechanism should function at the pressure of 45 to 65g when the tip of stop detect contact has been pulled upwards by a tension gauge. (Refer to Fig. 22)
2. If the pressure is less than 45g, bend the part (A) of adjusting arm to the B direction. If it is more than 70g, bend the part (A) to the C direction.

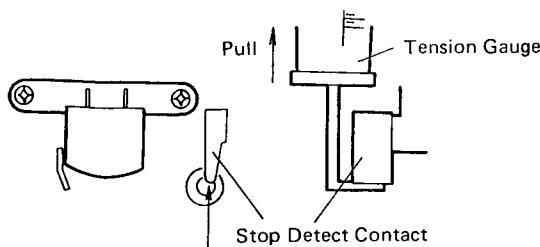


Fig. 21

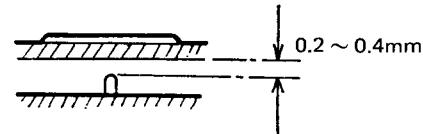


Fig. 23

Pause Mechanism

1. In the playback mode, check to see that the pinch roller separates from the capstan shaft and stops turning and then the reel disk stops turning and the tape stops when the PAUSE button has been pressed. Check to see that the tape restarts and is normally transported when the PAUSE button is released.

2. If the timing of pause mechanism is out of order: the takeup reel disk stops first and then the pinch roller stops, so that the tape is projected from the cassette half. Adjust the timing by bending the part (C) of pinch arm lever to the A direction.
3. The space between the pinch roller and the capstan shaft should be more than 0.5mm. If it is less than 0.5mm bend the part (C) to the A direction, and if it is excess bend the part (C) to B direction.

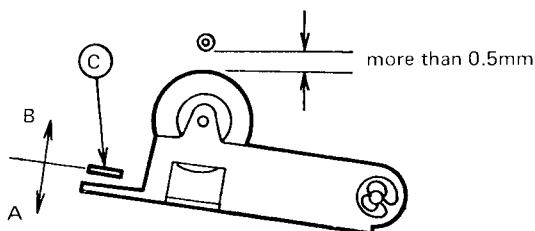


Fig. 24

Cue & Review Mechanism

1. Timing of Cue Action

- a. In the playback mode, if the CUE button is gradually pressed, the pinch roller stops turning first and then the takeup reel disk stops. If the CUE button is released, the takeup reel disk turns first and then the pinch roller rotates.
- b. If the timing is out of order, adjust it as follows.
 - 1) If the tape is projected from the cassette half at the beginning of cue action, adjust it by bending the part (C) of pinch arm lever to the A direction as shown in Fig. 24.
 - 2) If the tape is fast forwarded at the beginning of cue action, bend the part (C) to the B direction as shown in Fig. 24.

2. Timing of Review Action

- a. In the playback mode, if the REVIEW button is gradually pressed, the pinch roller stops turning first and then the takeup reel disk stops. If the REVIEW button is released, the takeup reel disk turns first and then the pinch roller rotates.
- b. If the timing is out of order, adjust it as follows.
 - 1) If the tape is projected from the cassette half at the beginning of review action, bend the part (C) to the A direction as shown in Fig. 24.
 - 2) If the tape is fast forwarded at the beginning of review action, bend the part (C) to the B direction as shown in Fig. 24.

Notes: 1. After adjustment, if the pinch arm lever has been bended, check the pause timing and check that the gap between the pinch roller arm and pinch arm lever is more than 0.2mm when the REVIEW button is pressed in the recording mode.

2. After adjustment check that the gap between the RQ boss and the pinch roller arm plate is within 0.7 to 1mm. If it is beyond the limits, adjust it by bending the part (A) of pinch roller arm plate as shown in Fig. 26.

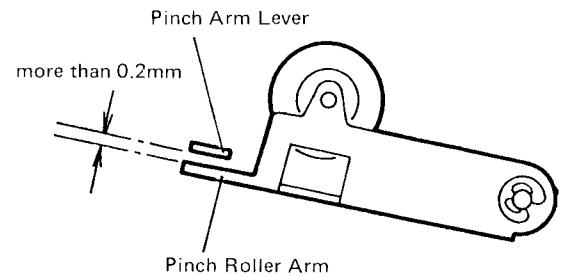


Fig. 25

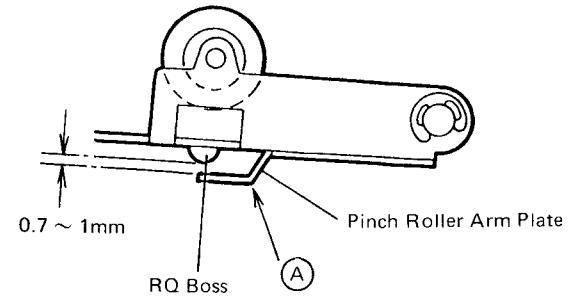


Fig. 26

Location of Heads

The record/play and erasing heads should be positioned as shown below.

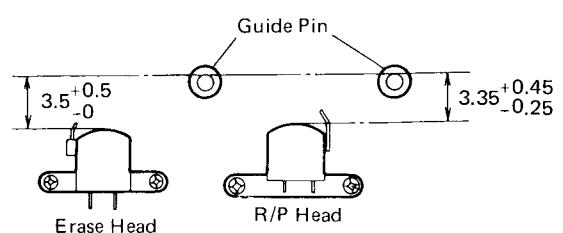


Fig. 27

Contact Pressure of Pinch Roller

In the playback mode and vertical position, the pinch roller should stop turning within 450 to 550g when the arrow position of pinch roller arm is gradually pulled by the tension gauge.

If the pressure is out of limit, change the spring or adjust the pressure by bending the spring.

Notes:

1. If the pressure is excessively over the limit, it may cause wow & flutter or cause crack from the pinch roller bearings.
2. If the pressure is defectively weak, it may cause wow & flutter or cause defect of auto stop motion.

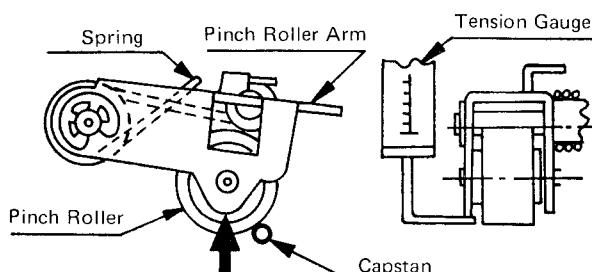


Fig. 28

Playback Torque

1. The playback torque should be within 40 to 70g-cm.
2. If the torque is less than 40g-cm, set the clutch spring to the 3 position. If it exceeds 70g-cm, set the clutch spring to the 1 position.

Note: Before adjusting the torque wipe off the surface of rubber parts and rotating parts, if the torque is not sufficient.

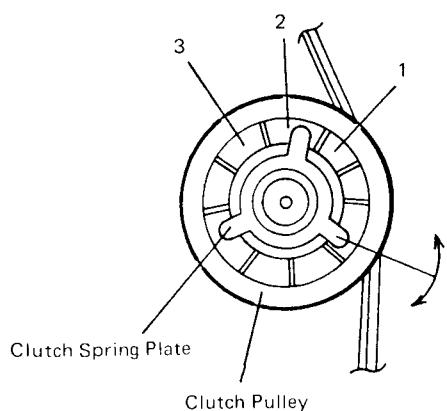


Fig. 29

Adjustment of F.F. & Rewind Torque

1. Fast Forward Torque

In the fast forward mode, check that the F.F. torque is within 60 to 150g.cm by applying the torque gauge to the take-up reel disk.

- a. If the torque is less than 60g.cm, adjust as follows.
 - 1) If the rotation of F.F. idler which is contacted with the flywheel stops or fluctuates when the take-up reel disk is stopped turning by the fingers, bend the part A of F.F. button lever to the C-direction.
 - 2) If the F.F. idler contacted with the flywheel is turning constantly when the take-up reel disk is stopped turning, turn the three-flap clutch spring plate clockwise (4→3→2→1) to obtain the proper torque.
- b. If the torque is over 150g.cm, turn the clutch spring plate counterclockwise (1→2→3→4) to obtain the proper torque.

2. Rewind Torque

In the rewind mode, check that the rewind torque is within 60 to 150g.cm by applying the torque gauge to the supply reel disk.

If the torque is out of standard, adjust it as same method as items a. & b. of "Fast Forward Torque".

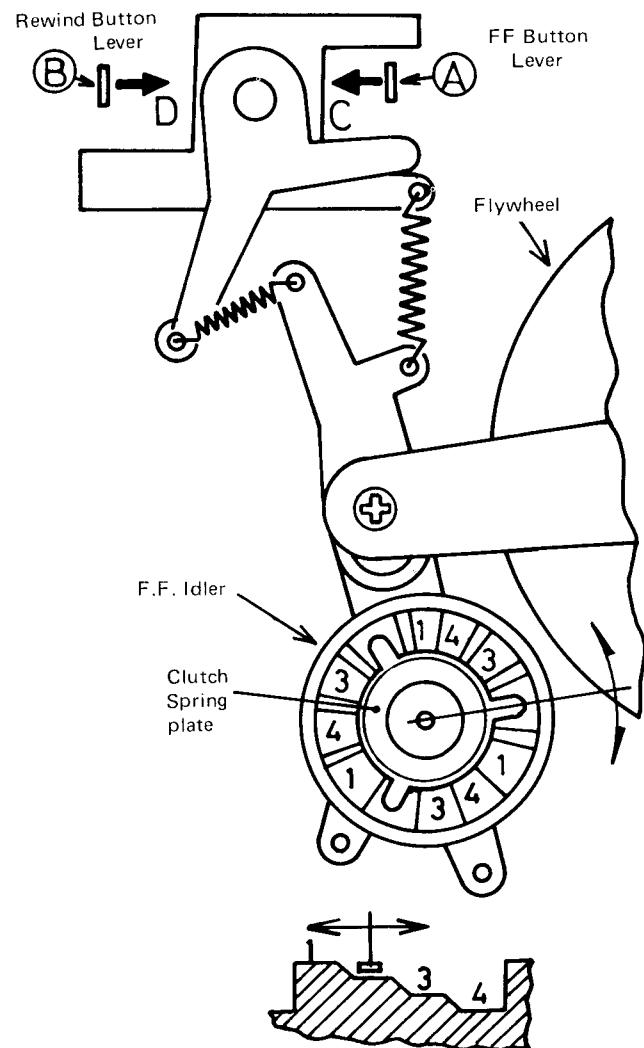


Fig. 30

Block Diagram

Playback & Radio Reception Mode

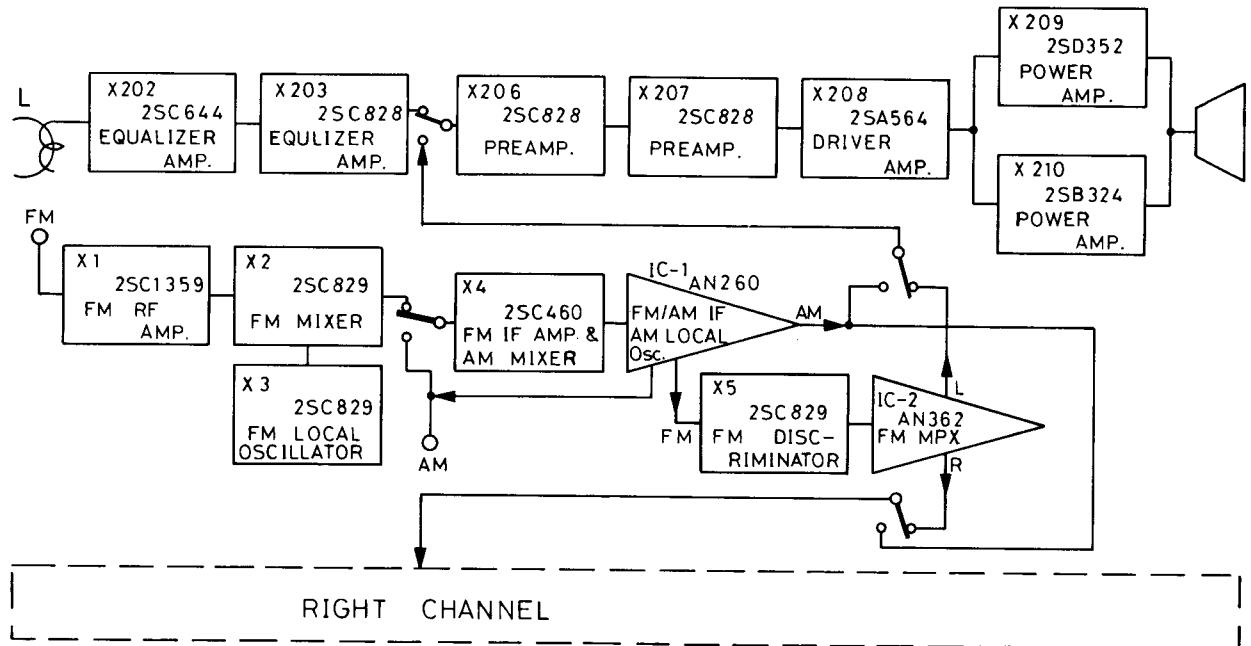


Fig. 31

Recording Mode

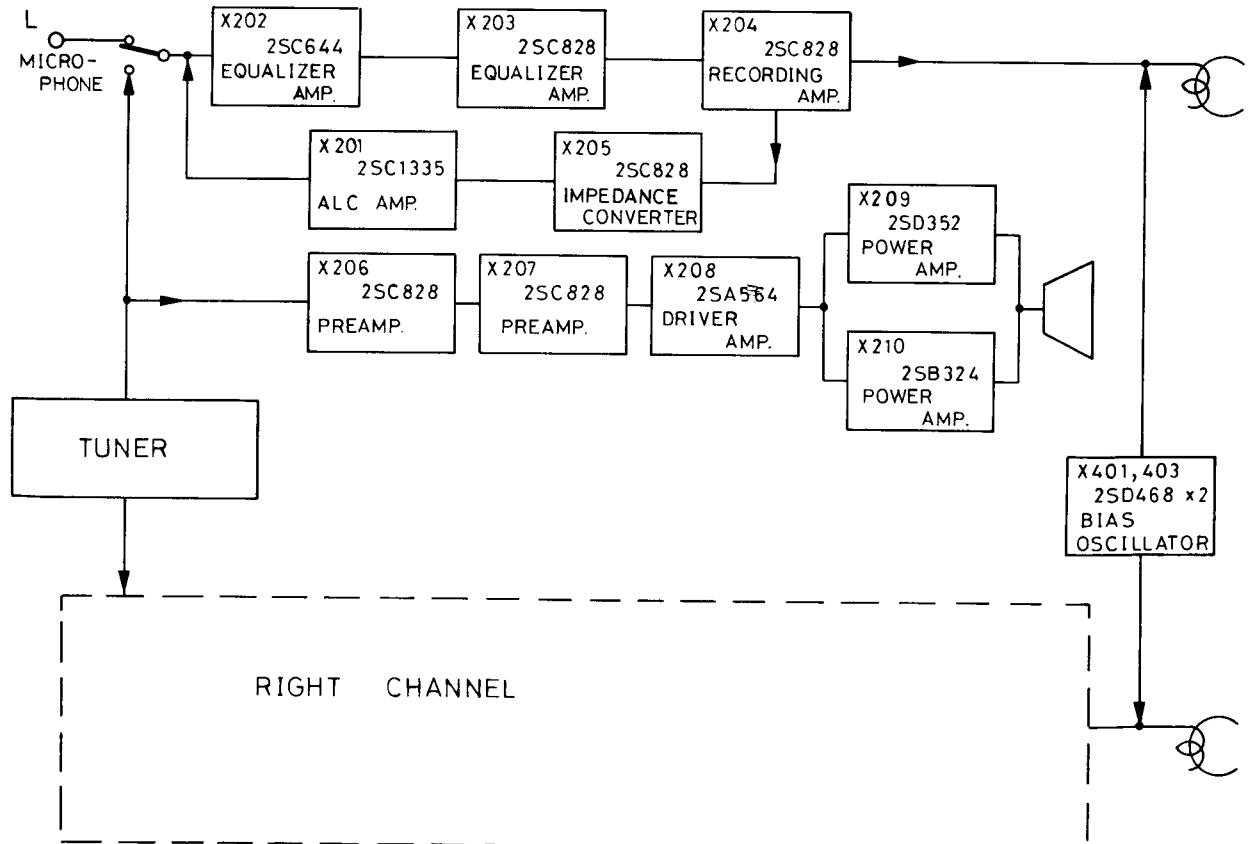


Fig. 32

Wiring Connection

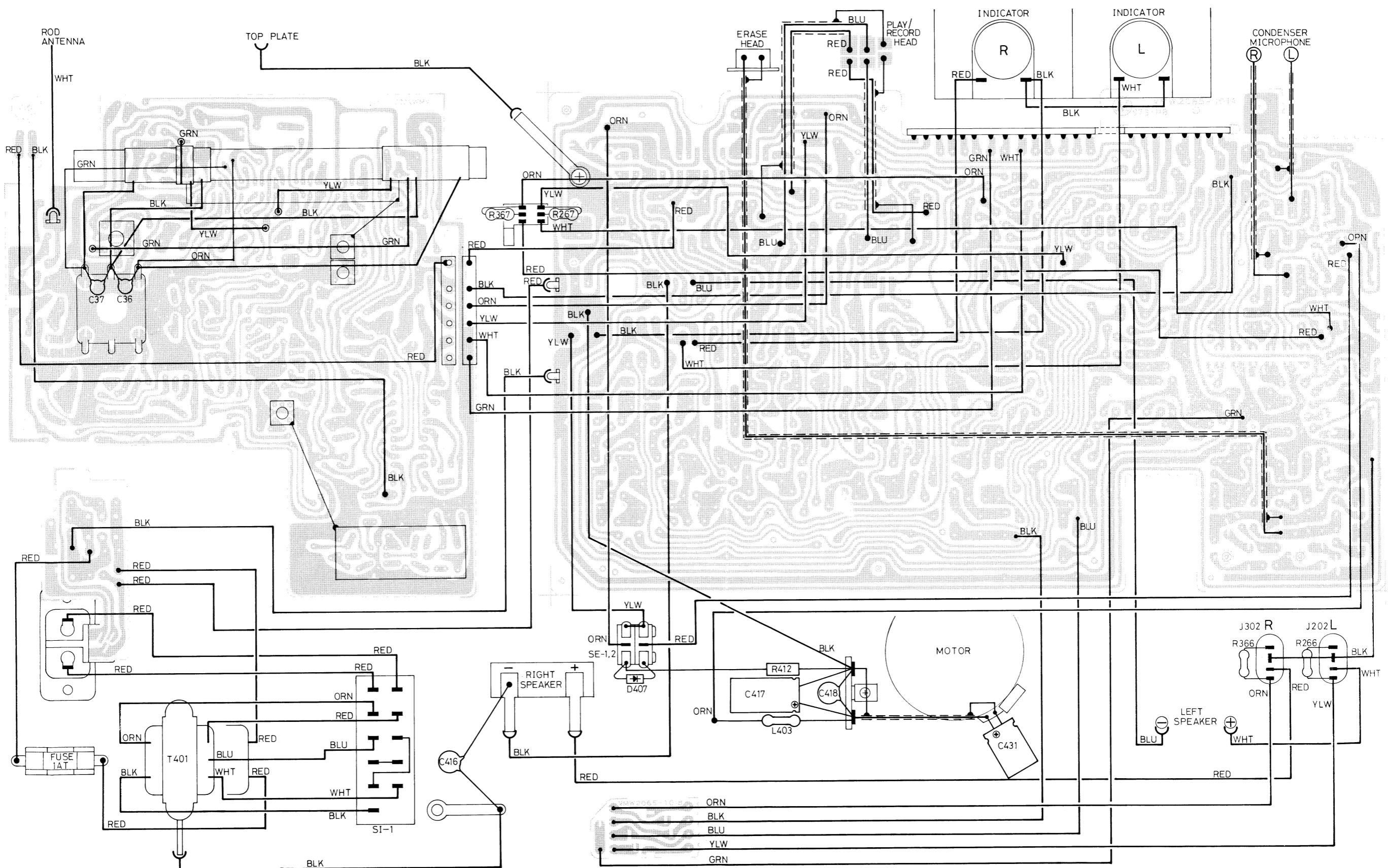
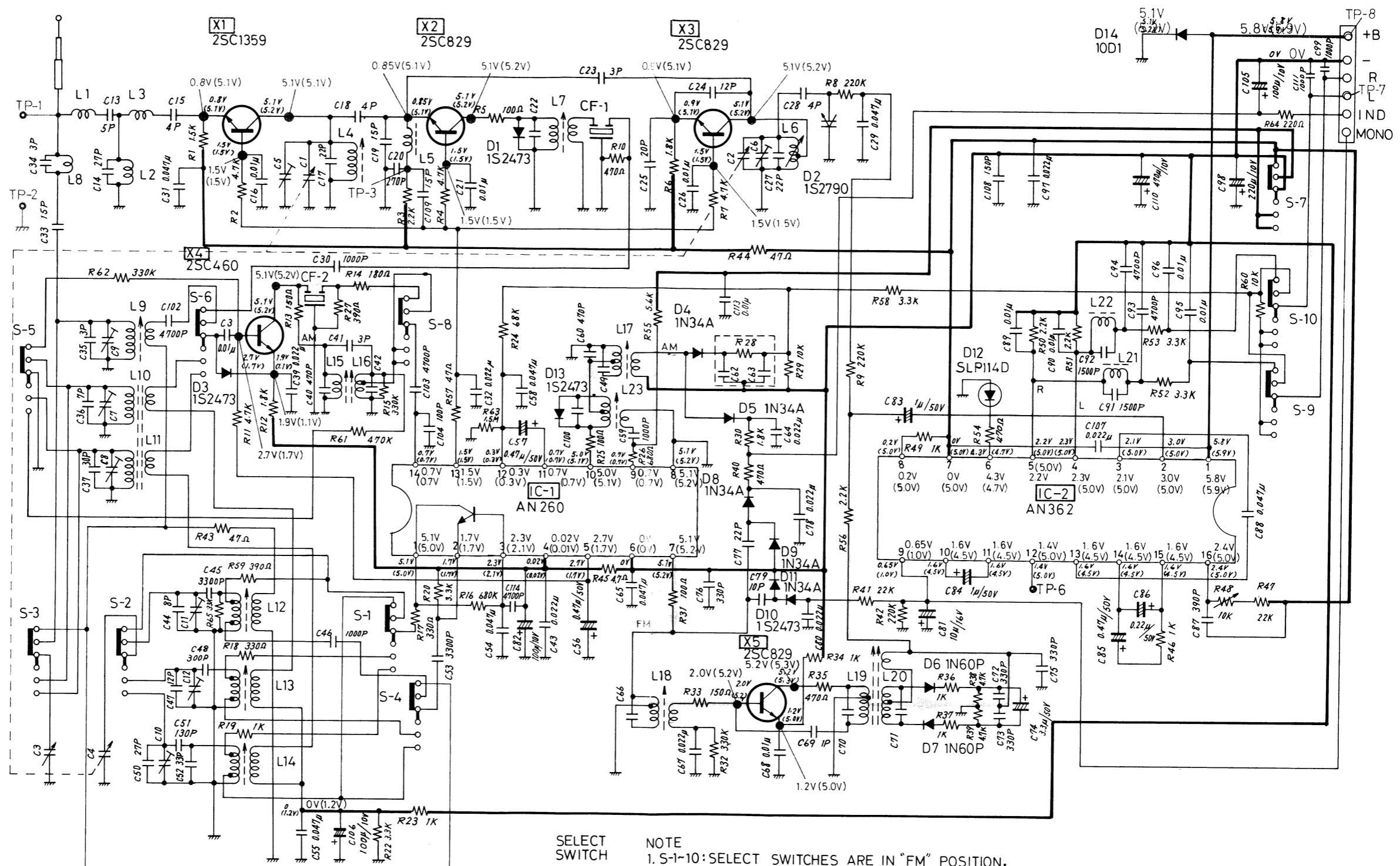


Fig. 33

Schematic Diagram of RC-717L,LB (Tuner)



NOTE
 1. S-1~10: SELECT SWITCHES ARE IN "FM" POSITION.
 2. VOLTAGE VALUES ARE MEASURED AGAINST MINUS
 POTENTIAL (-) USING V.T.V.M AT FM POSITION.
 () VALUES ARE AT MW POSITION.
 3. LAST NO. R65.C14

Fig. 34

Schematic Diagram of RC-717L (Amplifier)

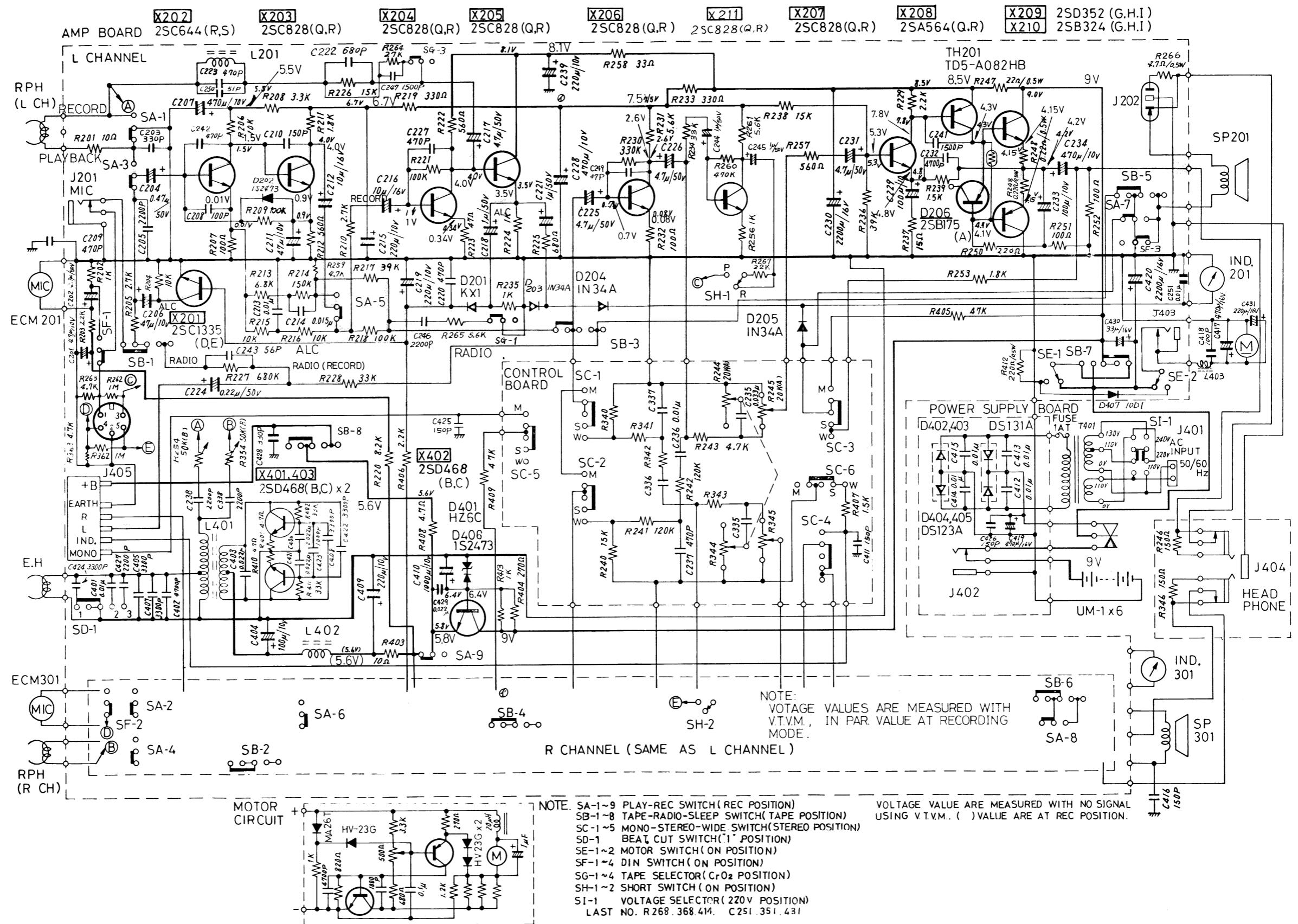


Fig. 35

Tuner Circuit Board Ass'y

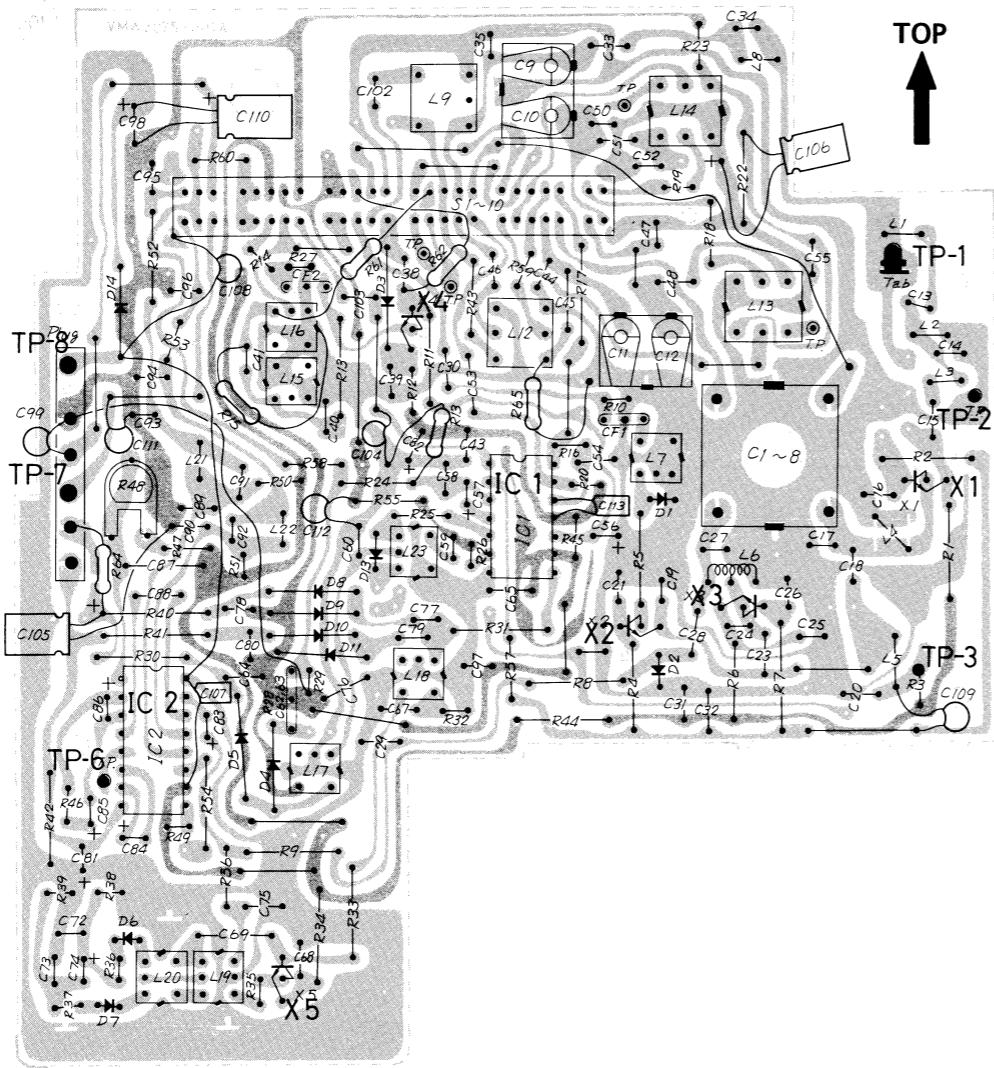


Fig. 36

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X1, X2,3,5 X4	2SC1359(B) 2SC829(C) 2SC460(C)	Silicon (MATSUSHITA) " (") " (HITACHI)	0.25W " 0.2W	300MHz 230MHz "

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC1	AN260	Integrated Circuit	MATSUSHITA (FM/AM IF)
IC2	AN362	"	" (MPX)
D1,3,10,13	1S2473	Silicon Diode	TOYO DENGU
D2	1S2790	Variable Capacitance Diode	HITACHI
D4,5	1N34A	Germanium Diode	"
D6,7	1N60P	"	"
D8,9,11	1N34A	"	"
D14	10D1	Silicon Diode	J.I.R.C.

Resistors

Ref. No.	Parts No.	Parts Name	Description
R1	QRD141K-152	Carbon	1.5kΩ 1/4W
R2,4,7,11	.. -472	"	4.7kΩ "
R3	.. -222	"	2.2kΩ "
R5	.. -101	"	100Ω "
R6,12	QRD143K-182	"	1.8kΩ "
R8,9	QRD141K-224	"	220kΩ "
R10	QRD143K-471	"	470Ω "
R13	QRD141K-151	"	150Ω "
R14	QRD143K-181	"	180Ω "
R15	.. -334	"	330kΩ "
R16	.. -684	"	680kΩ "
R17	QRD141K-331	"	330Ω "
R18	QRD143K-331	"	" "
R19,23	.. -102	"	1kΩ "
R20	.. -332	"	3.3kΩ "
R22	QRD141K-332	"	" "
R24	QRD143K-683	"	68kΩ "
R25	.. -101	"	100Ω "
R26	.. -681	"	680Ω "
R27	.. -391	"	390Ω "
R28	03126-15	CR Block	includes C62,63
R29	QRD143K-103	Carbon	10kΩ 1/4W
R30	QRD141K-182	"	1.8kΩ "
R31	.. -101	"	100Ω "
R32	QRD143K-334	"	330kΩ "
R33	QRD141K-151	"	150Ω "
R34	.. -102	"	1kΩ "
R35	QRD143K-471	"	470Ω "
R36,37,46,49	.. -102	"	1kΩ "
R38,39	.. -472	"	4.7kΩ "
R40,54	QRD141K-471	"	470Ω "
R41	.. -223	"	22kΩ "
R42	.. -224	"	220kΩ "
R43,57	QRD143K-470	"	47Ω "

Ref. No.	Parts No.	Parts Name	Description	
R44	QRD141K-470	Carbon	4.7Ω	1/4W
R45	QRD143K-4R7	"	4.7Ω	"
R47	" -223	"	22kΩ	"
R48	QVP8A0B-014A	Variable	10kΩ	B-curve
R50,51	QRD143K-222	Carbon	2.2kΩ	1/4W
R52	QRD141K-332	"	3.3kΩ	"
R53,58	QRD143K-332	"	"	"
R55	" -562	"	5.6kΩ	"
R56	QRD141K-222	"	2.2kΩ	"
R59	QRD143K-391	"	390Ω	"
R60	" -103	"	10kΩ	"
R61	QRD141K-474	"	470kΩ	"
R62	QRD143K-334	"	330kΩ	"
R63	" -155	"	1.5MΩ	"
R64	" -221	"	220Ω	"
R65	QRD143K-333	"	33kΩ	"

Capacitors

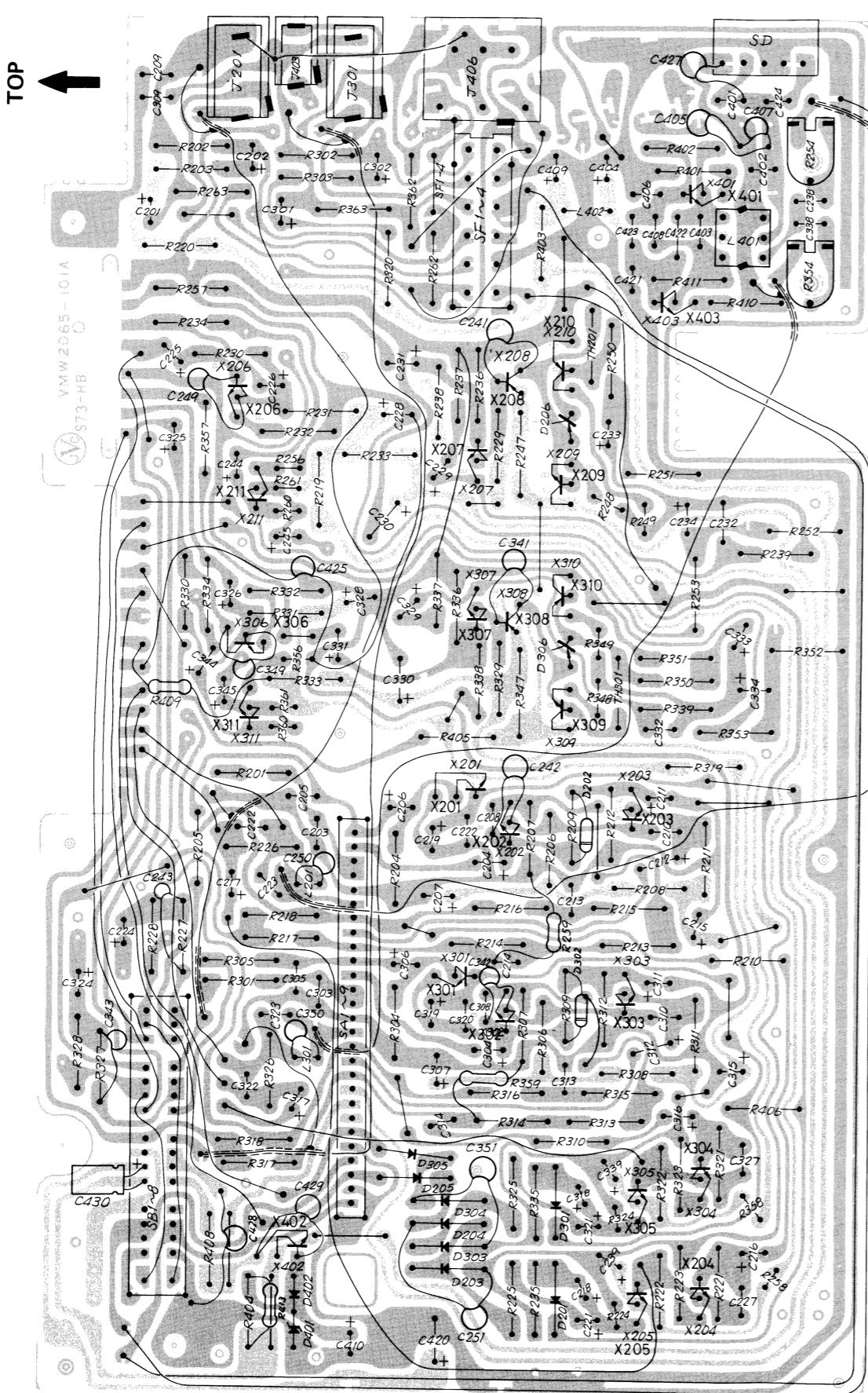
Ref. No.	Parts No.	Parts Name	Description	
C1~8	QAP1224-504	Variable		
C9-10,11-12	QAT2002-001	Trimmer		
C13	QCS11HK-5R0	Ceramic	5pF	50V
C14	" -270	"	27pF	"
C15,18,28	QCS11HJ-4R0	"	4pF	"
C16,21,26	QCF11EZ-103	"	0.01μF	25V
C17	QCS11HK-220	"	22pF	50V
C19	" -150	"	15pF	"
C20	" -271	"	270pF	"
C23,34	QCS11HJ-3R0	"	3pF	"
C24	" -120	"	12pF	"
C25	QCS11HK-200	"	20pF	"
C27	QCT05CH-220	"	22pF	"
C29	QCF11EZ-473	"	0.047μF	25V
C30	QCY41HK-102	"	1000pF	50V
C31	QFM41HM-473	Mylar	0.047μF	"
C32,39,43	" -223	"	0.022μF	"
C33,47	QCS11HK-150	Ceramic	15pF	"
C35,36,41	" -3R0	"	3pF	"
C37	" -300	"	30pF	"
C38	QFM41HM-103	Mylar	0.01μF	"
C40	QCS11HK-471	Ceramic	470pF	"
C44	" -100	"	10pF	"
C45	QFS41HJ-332	Polystyrol	3300pF	"
C46,59	QCY41HK-102	Ceramic	1000pF	"
C48	QCS11HK-301	"	300pF	"
C50	" -270	"	27pF	"
C51	" -131	"	130pF	"
C52	" -330	"	33pF	"
C53	QCY41HK-332	"	3300pF	"
C54	QFM41HM-473	Mylar	0.047μF	"
C55,58,65	QCF11EZ-473	Ceramic	"	25V
C56,57	QEWF41HA-474	Electrolytic	0.47μF	50V
C60	QCS11HK-471	Ceramic	470pF	"
C62,63	03126-15	CR Block	includes R28	
C64,67	QCF11EZ-223	Ceramic	0.022μF	25V
C68	"	"	0.022μF	"

Ref. No.	Parts No.	Parts Name	Description	
C69	QCS11HK-1R0	Ceramic	1pF	50V
C72,73,75,76	" -331	"	330pF	"
C74	QEWF41HA-335	Electrolytic	3.3μF	"
C77	QCS11HK-220	Ceramic	22pF	"
C78,80	QCF11EZ-223	"	0.022μF	25V
C79	QCS11HK-100	"	10pF	50V
C81	QEWF41CA-106	Electrolytic	10μF	16V
C82	QEWF41AA-107	"	100μF	10V
C83,84	QEWF41HA-105	"	1μF	50V
C85	" -474	"	0.47μF	"
C86	QEC81HM-224	"	0.22μF	"
C87	QFS21HJ-391	Polystyrol	390pF	"
C88	QFM41HM-473	Mylar	0.047μF	"
C89,90,95,96	" -103	"	0.01μF	"
C91,92	QCY41HK-152	Ceramic	1500pF	"
C93,94	" -472	"	4700pF	"
C97,107	QFM41HM-223	Mylar	0.022μF	"
C98	QEWF41AA-477D11	Electrolytic	470μF	10V
C99	QCY41HK-102	Ceramic	1000pF	50V
C102,103	" -472	"	4700pF	"
C104	QCS11HK-101	"	100pF	"
C105,106	QEWF41AA-107	Electrolytic	100μF	10V
C108	QCS11HK-151	Ceramic	150pF	50V
C109	" -150	"	15pF	"
C110	QEWF41AA-477D11	Electrolytic	470μF	10V
C111	QCY41HK-102	Ceramic	1000pF	50V
C112	QCF11EZ-103	"	0.01μF	25V
C113	QFM41HM-472	Mylar	4700pF	50V

Others

Ref. No.	Parts No.	Parts Name	Description	
L1,3	V03047-21	Coil	FM Antenna	" "
L2	" -10	"	" RF	" IF trap
L4	V03105-018	"	" Osc.	" Osc.
L5	03226-1K	Inductor	FM	"
L6	V03080-015	Coil	SW Antenna	"
L7	VQT7F12-103	I.F.T	"	"
L8	V03047-11	Coil	AM	"
L9	VQR1001-202	"	"	"
L12	V03101-025	"	"	" Osc.
L13	VQM1T03-201	"	MW Osc.	"
L14	VQL1T03-201	"	LW "	"
L15	VQT7A10-101	I.F.T.	AM	"
L16	VQT7A11-101	"	"	"
L17	" -302	"	"	"
L18	V03068-23	"	FM	"
L19	VQT7F15-502	"	"	"
L20	VQT7F16-602	"	"	"
L21,22	03226-18	Inductor	FM	"
L23	VQT7F11-202	I.F.T.	"	"
CF1,2	V03059-3	Ceramic Filter	Band Select	"
S1~10	QSS0023-001	Slide Switch	6-pin	"
Plug	QMC0629-001	Plug Ass'y		
Tab	V43895-1	Tab		
T.P.	V04041-1	Test Point		

Amplifier Circuit Board Ass'y



Ref. No.	Parts No.	Parts Name	Description	
R250,350	QRD141K-221Y	Carbon	220Ω	1/4W
R251,252,351,352	" -101Y	"	100Ω	"
R253,353	" -182Y	"	1.8kΩ	"
R254,354	QVP8A0B-054A	Variable	50kΩ	B-curve
R256,356	QRD143K-102	Carbon	1kΩ	1/4W
R257,357	QRD141K-561Y	"	560Ω	"
R258,358	QRD143K-330	"	33Ω	"
R259,359	QRD141K-472	"	4.7kΩ	"
R260,360	QRD143K-474	"	470kΩ	"
R261,361	" -562	"	5.6kΩ	"
R262,362	QRD141K-105Y	"	1MΩ	"
R263,363	" -472Y	"	4.7kΩ	"
R266,366	QRD121J-4R7	"	4.7Ω	1/2W
R268,368	QRD143K-103	"	10kΩ	"
R401,408,410	QRD141K-4R7Y	"	4.7Ω	"
R402,411	" -333Y	"	33kΩ	"
R403	" -100Y	"	10Ω	"
R404	" -221Y	"	220Ω	"
R405	" -473Y	"	47kΩ	"
R406	" -222Y	"	2.2kΩ	"
R409	" -473	"	47kΩ	"
R413	" -102	"	1kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C201,206,301,306	QEWA41AA-476	Electrolytic	47μF	10V
C202,217,302,317	QEWA41HA-475	"	4.7μF	50V
C203,303	QCS11HK-331	Ceramic	330pF	"
C204,304	QEWA41HA-474	Electrolytic	0.47μF	"
C205,305	QCY41HK-222	Ceramic	2200pF	"
C207,307	QEWA41AA-477D11	Electrolytic	470μF	10V
C208,308	QCS11HK-101	Ceramic	100pF	50V
C209,309	" -471	"	470pF	"
C210,310	" -151	"	150pF	"
C211,311	QEWA41AA-476	Electrolytic	47μF	10V
C212,216,312,316	QEWA41CA-106	"	10μF	16V
C213,313	QFM41HK-103	Mylar	0.01μF	50V
C214,314	" -153	"	0.015μF	"
C215,219,315,319	QEWA41AA-227D09	Electrolytic	270μF	10V
C218,221,318,321	QEWA41HA-105	"	1μF	50V
C220,223,320,323	QCS11HK-471	Ceramic	470pF	"
C222,322	QCS11HJ-681	"	680pF	"
C224,324	QEC81HM-224	Electrolytic	0.22μF	"
C225,226,325,326	QEWA41HA-475	"	4.7μF	"
C227,327	QCS11HK-471	Ceramic	470pF	"
C228,234,328,334	QEWA41AA-477D11	Electrolytic	470μF	10V
C229,233,329,333	" -107	"	100μF	"
C230,330	QEWA41CA-228	"	2200μF	16V
C231,331	QEWA41HA-475	"	4.7μF	50V
C232,332	QCY41HK-472	Ceramic	4700pF	"
C238,338	" -222	"	2200pF	"
C239,339	QEWA41AA-227D09	Electrolytic	220μF	10V
C241,341	QCY41HK-152	Ceramic	1500pF	50V
C242,342	QCS11HK-471	"	470pF	"
C243,343	" -560	"	56pF	"

Ref. No.	Parts No.	Parts Name	Description	
C244,245,344,345	QEWA41HA-105	Electrolytic	1μF	50V
C249,349	QCS11HK-470	Ceramic	47pF	"
C250,350	QCS11HJ-510	"	51pF	"
C251,351	QCF11EZ-103	"	0.01μF	25V
C401	QCY41HK-103	"	0.01μF	50V
C402	QFM41HM-472	Mylar	4700pF	"
C403,406	" -223	"	0.022μF	"
C404	QEWA41AA-107	Electrolytic	100μF	10V
C405,407,408	QCY41HK-332	Ceramic	3300pF	50V
C409	QEWA41AA-227D09	Electrolytic	220μF	10V
C410	" -108	"	1000μF	"
C420	QEWA41CA-228	"	2200μF	16V
C421	QFM41HK-223	Mylar	0.022μF	50V
C422,424	QCY41HK-332	Ceramic	3300pF	"
C423	" -102	"	1000pF	"
C425	QCS11HK-151	"	150pF	"
C427	QCY41HK-222	"	2200pF	"
C428	QCS11HK-331	"	330pF	"
C429	QCF11EZ-223	"	0.022μF	25V
C430	QEWA41CA-336	Electrolytic	33μF	16V

Others

Ref. No.	Parts No.	Parts Name	Description
L201,301	03226-17	Inductor	
L401	V03083-019	Coil	Bias Osc.
L402	03226-2	Inductor	
SA1~9	QSS9201-001A	Slide Switch	Play/Record
SB1~8	QSS8301-001	"	Function
SF1~4	QSP4210-061	Push Switch	DIN
J201,202,301,302	V03104-057	Jack Board Ass'y	
403,SD1	QMC9014-005	DIN Socket Ass'y	
J406	V43895-1	Tab	
Tab	V44691-001	Wire Clamp	

Exploded View of Cassette Mechanism

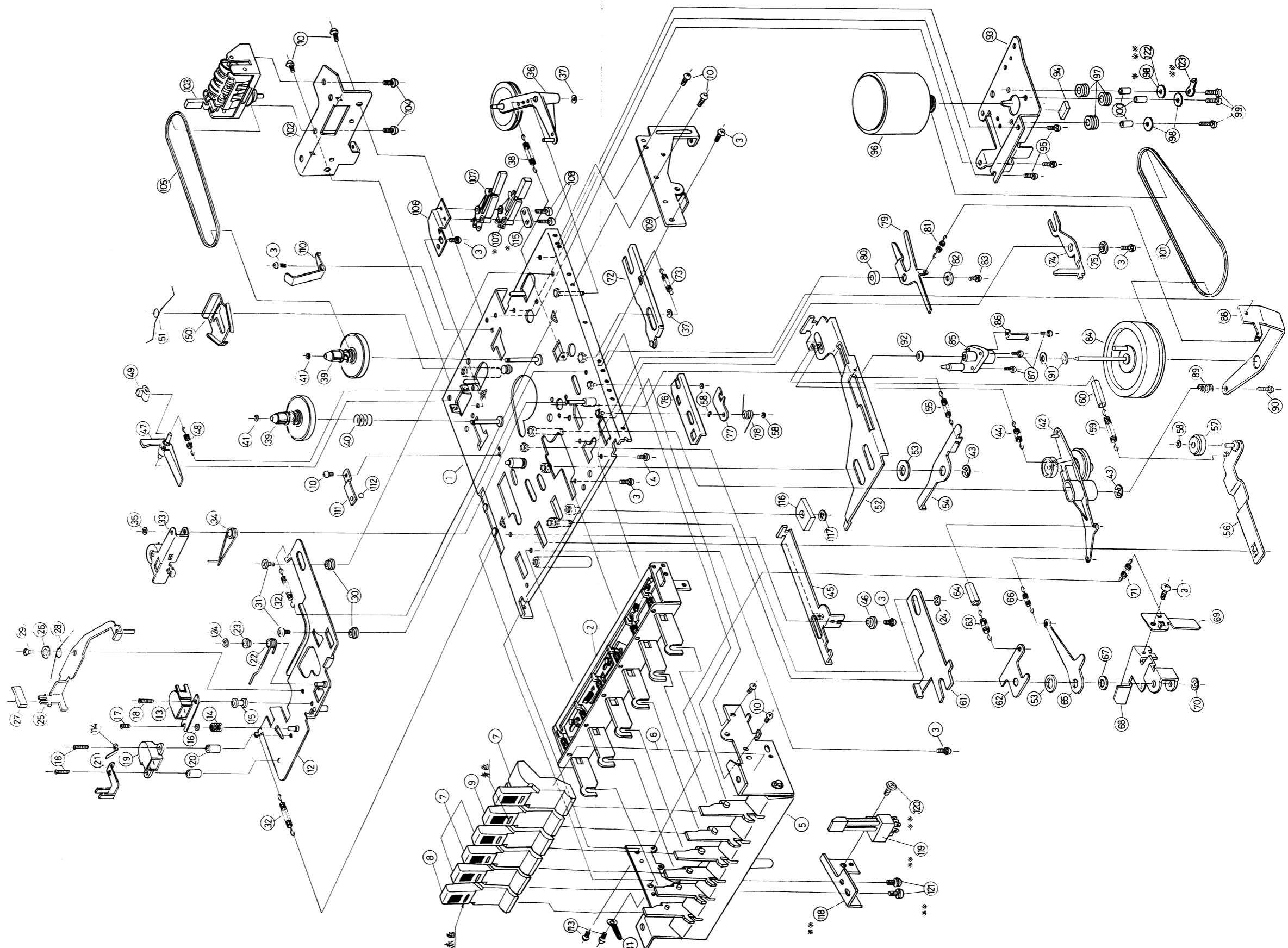


Fig. 38

List of Cassette Mechanism

Ref. No.	Parts No.	Parts Name	Description	Q'ty	Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*9700181ZT	Chassis Ass'y		1	58	REE1500	E-Ring		4
2	*9700291ZT	Push Button Switch Ass'y		1	59	020905BT	Spring		1
3	LPSP2605Z	Ass'y Screw		8	60	_____	Tube	φ3xφ4xL24	1
4	SPSP2606Z	Screw		1	61	4080806T	RQ-Function Plate		1
5	*9700292ZT	Frame Holder Ass'y		1	62	4080805T	Rewind Function Plate		1
6	*9700271ZT	Knob & Frame Composite Ass'y		1	63	4080812T	Spring		1
7	*V31127-001	Cassette Knob	RECORD	4	64	_____	Tube	φ4.5xφ5.5xL10	1
8	*V31127-002	Cassette Knob	STOP	1	65	4080804T	FF Function Plate		1
9	*V31127-003	Cassette Knob		1	66	4080810T	Spring		1
10	SPSD2604Z	TH. Tap Screw		7	67	1510305T	Special Washer		1
11	4660901T	Wire Clamp		1	68	8200303T	Record Lever		1
12	*9700481ZT	Head Panel Ass'y		1	69	*9700303T	Record Spring Plate		1
13	*V03078-048	R/P Head		1	70	REE3200	E-Ring		1
14	480408T	Spring		1	71	580301T	Spring		1
15	*9700401T	R/P Head Collar		1	72	4081581ZT	Slide Lever Ass'y		1
16	WNS2000Z	Washer		1	73	4081510T	Spring		1
17	*SPSX2006Z	Screw		1	74	4081503T	Pinch Roller Arm Lever		1
18	SPSP2011Z	Screw		3	75	2381304T	Collar		1
19	*V03078-049	Erase Head		1	76	5581681ZT	Pause Slide Lever Ass'y		1
20	*4630402T	Erase Head Collar		2	77	8291401T	Pause Lever		1
21	4080430T	Wire Clamp		1	78	5421803T	Pause Lever Spring		1
22	*9700405T	RQ-Spring		1	79	4081405T	Auto Stop Lever		1
23	4080412T	Collar		1	80	4081402T	Collar		1
24	REE2500	E-Ring		2	81	020708T	Spring		1
25	4080482ZT	Stop Detect Lever Ass'y		1	82	WNS2600Z	Washer		1
26	4080414T	Collar		1	83	LPSP2607Z	Ass'y Screw		1
27	4531301T	Stop Detect Contact		1	84	580903ZT	Flywheel Ass'y		1
28	4080415T	Spring		1	85	3690701T	FL. Block		1
29	SSSP2005Z	Screw		1	86	4460701T	Earth Plate		1
30	4080411T	Collar		2	87	LPSP2005Z	Ass'y Screw	3	
31	SDSP2604Z	Screw		2	88	4081195ZT	Flywheel Bracket Ass'y		1
32	4080413T	Spring		2	89	060405T	Spring		1
33	7150781ZT	Pinch Roller Ass'y		1	90	SPSP2610Z	Screw		1
34	4080503T	Pinch Roller Spring		1	91	031504T	Special Washer	2	
35	REE1900	E-Ring		1	92	031503T	Special Washer	1	
36	*9700791ZT	Clutch Ass'y		1	93	*9701201T	Motor Bracket	1	
37	REE2000	E-Ring		2	94	3130702T	Mat	1	
38	2380406T	Spring		1	95	LPSP2604Z	Ass'y Screw	3	
39	5720695ZT	Reel Disk Ass'y		2	96	MHi5F9CL	Motor	1	
40	040508T	Spring		1	97	T45687-001	Rubber Cushion	3	
41	REE1200	E-Ring		2	98	031501T	Washer	2	
42	82008ZT	FF Idler Ass'y		1	99	SPSP2607Z	Screw	3	
43	REE4000	E-Ring		2	100	4081211T	Motor Collar	3	
44	581316T	Spring		1	101	6241201T	Main Belt	1	
45	4080301T	Record Slide Lever		1	102	*9701701T	Counter Bracket	1	
46	030304T	Collar		1	103	*V31093-002	Tape Counter	1	
47	2680503T	Record Safety Lever		1	104	SPSP3005ZS	Screw	2	
48	1320303T	Spring		1	105	8001602T	Counter Belt	1	
49	2680515T	Stopper		1	106	8201801T	Switch Bracket	1	
50	4080901T	Brake Arm		1	107	6251804T	Main Switch	2	
51	8200902T	Spring		1	108	SPSP2014Z	Screw	2	
52	4080903T	Brake Function Plate		1	109	*9701601T	Bracket	1	
53	110505T	Special Washer		2	110	*9700103T	Pack Spring	1	
54	4080807T	RQ-Lever		1	111	*8780404ZT	Spring Plate	1	
55	4080811T	Spring		1	112	*020404T	Steel Ball	1	
56	*9701081ZT	Rewind Idler Arm Ass'y		1	113	SPSD2606Z	TH. Tap. Screw	2	
57	2110902T	Rewind Idler		1	114	031307T	Wire Clamp	1	

V44737-001

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— Continued on page 29 —

Control Circuit Board Ass'y

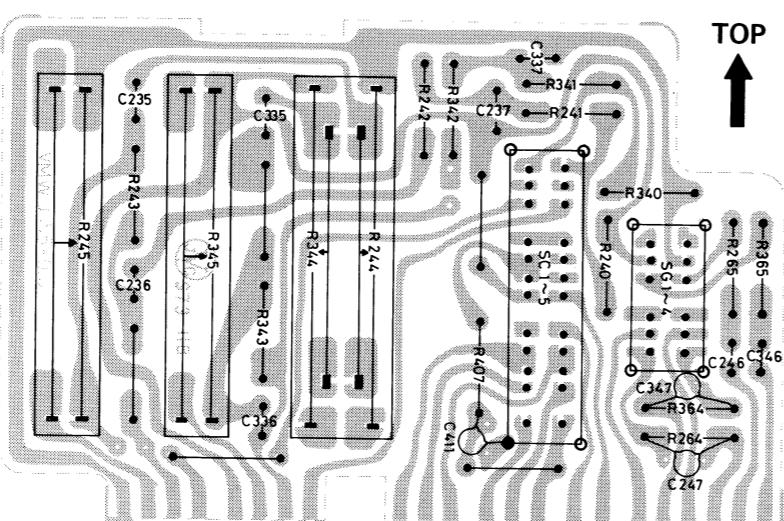


Fig. 39

Switches

Ref. No.	Parts No.	Parts Name	Description
SC 1 ~ 5	QSL6336-001	Slide	MODE/METER
SG 1 ~ 4	QSL4218-001	"	TAPE

Resistors

Ref. No.	Parts No.	Parts Name	Description	
R240, 340	QRD141K-153	Carbon	15kΩ	1/4W
R241, 341	" -124	"	120kΩ	"
R242, 342	" -124	"	"	"
R243, 343	" -472	"	4.7kΩ	"
R244, 344	QVT1AFA-024A	Variable (Slide)	20kΩ, A-curve	
R245, 345	QVT3AFA-024	" (")	"	"
R264, 364	QRD141K-273	Carbon	27kΩ	1/4W
R265, 365	" -562	"	5.6kΩ	"
R407	" -152	"	1.5kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C235, 335	QFM41HM-333	Mylar	0.033 μ F	50V
C236, 336	" -103	"	0.01 μ F	"
C237, 337	QCS11HK-471	Ceramic	470pF	"
C246, 346	QCY41HK-222	"	2200pF	"
C247, 347	" -152	"	1500pF	"
C411	QCS11HK-151	"	150pF	

Headphone Circuit Board Ass'y

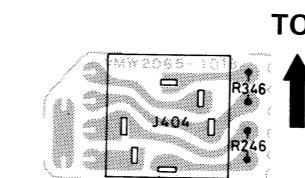


Fig. 40

Resistors

Ref. No.	Parts No.	Parts Name	Description	
R246, 346	QRD143K-151	Carbon	150Ω	1/4W

Other

Ref. No.	Parts No.	Parts Name	Description
J404	QMS6301-008	Headphone Jack Ass'y	

LED Circuit Board Ass'y

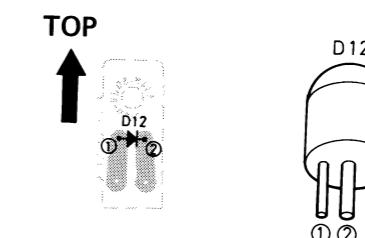


Fig. 41

Diode

Ref. No.	Parts No.	Parts Name	Description
D12	SLP114D	Light Emission (SANYO)	Red

Exploded View of Power Supply Ass'y

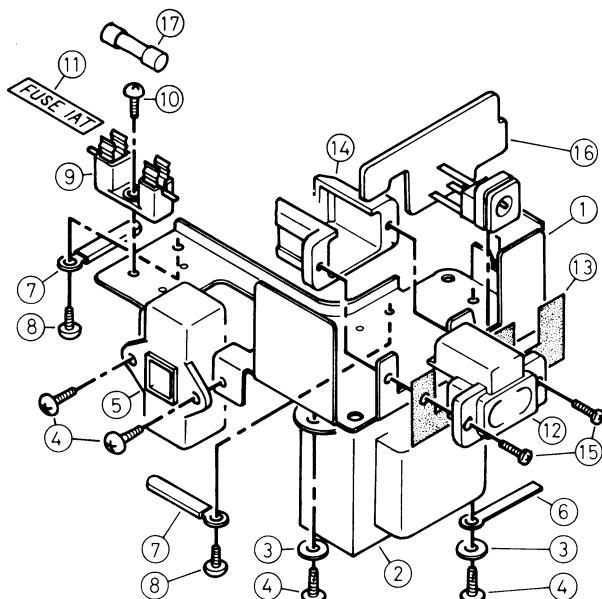


Fig. 42

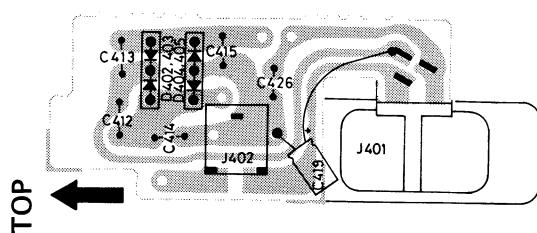


Fig. 43

Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*V31152-003	AC Bracket		1
2	VTP48N2-90B	Power Transformer	T401	1
3	Q03091-138	Washer		2
4	SBSB3008Z	Screw		4
5	QSS2325-005	Slide Switch	SI-1	1
6	V42603-2	Wire Clamp		1
7	V42603-003	"		1
8	SBSB2608Z	Screw		2
9	QMG1321-002	Fuse Holder Ass'y		1
10	SBSB2608Z	Screw		2
11	V42816-007	Fuse Label		1
12	QMC0263-001	AC Socket Ass'y	J401	1
13	V44896-001	Spacer		1
14	V44399-00D	Cap		1
15	SPSP2608Z	Screw		2
16	*	Circuit Board Ass'y	Power Supply	1
17	QMF51A2-1R0	Fuse	1AT	1

Diodes

Ref. No.	Parts No.	Parts Name	Description
D402, 403	DS131A	Silicon (SANYO)	Rectifier Stack
D404, 405	DS132A	" (")	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C412~415	QCF11EZ-103	Ceramic	0.01 μ F 25V
C419	QEW41CA-477	Electrolytic	470 μ F 16V
C426	QCS11HK-151	Ceramic	150pF 50V

Others

Ref. No.	Parts No.	Parts Name	Description
J401	QMC0263-001	AC Socket Ass'y	
J402	QMA0921-003	DC Jack Ass'y	

Exploded View of Tuner Ass'y

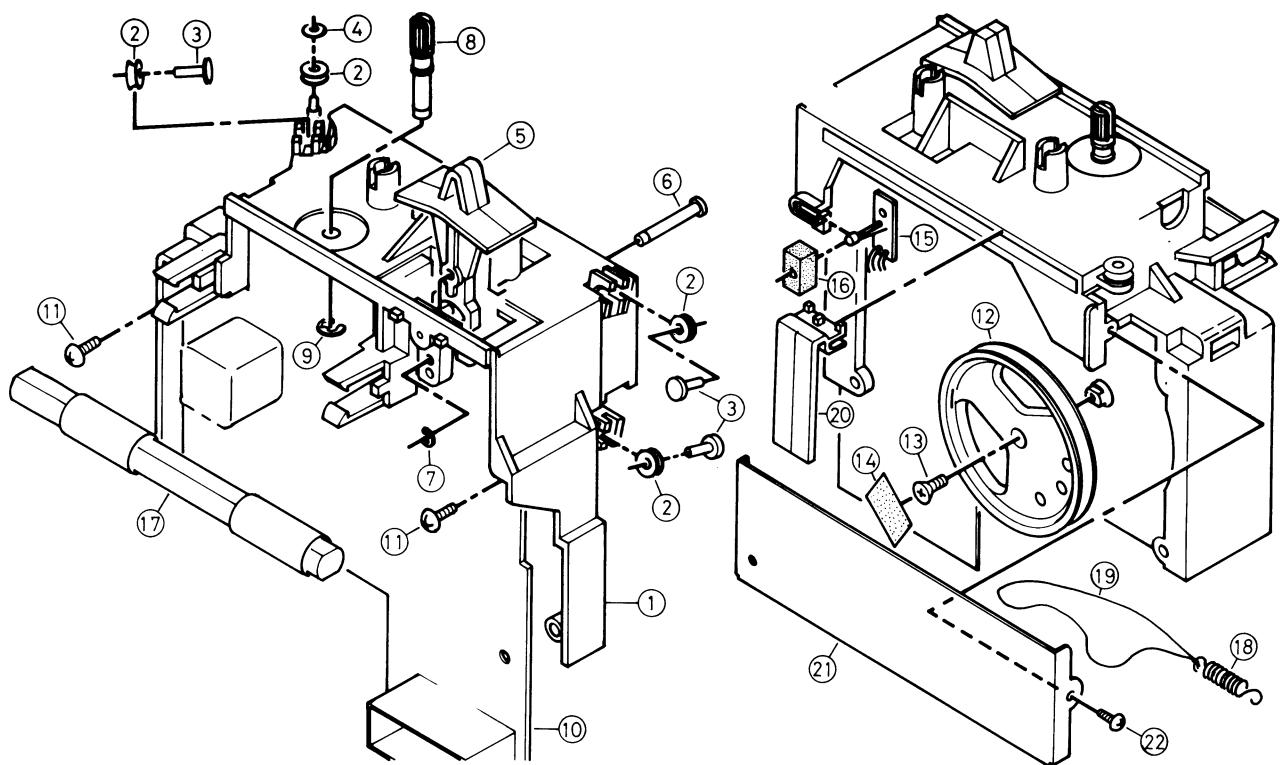


Fig. 44

Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	* V20693-001	Chassis Base		1
2	V40409-3	Roller		4
3	RTA3007	Rivet		3
4	V42562-1	Special Washer		1
5	* V44894-002	Toggle Lever		1
6	* V43202-009	Stud		1
7	REE2000	E-Ring		1
8	V41336-013	Tuning Shaft		1
9	REE3000	E-Ring		1
10	* _____	Circuit Board Ass'y	Tuner	1
11	SBSB3008Z	Screw		2
12	QZD1108-002	Dial Drum		1
13	SSSP2608Z	Screw		1
14	VYSA1R6-021	Spacer		1
15	* _____	Circuit Board Ass'y	Glued (Sticker)	1
16	* V44901-001	Spacer	LED	1
17	VQB012B-006	Bar Antenna Ass'y		1
18	50153-3	Spring		1
19	VHR2TT9-06A	Dial Cord	L10, 11	1
20	* V44895-001	Needle		1
21	* V31133-002	Dial Scale	$\phi 0.6 \times 895$ mm	1
22	SBSB2606Z	Screw		1

Exploded View of Amplifier Ass'y

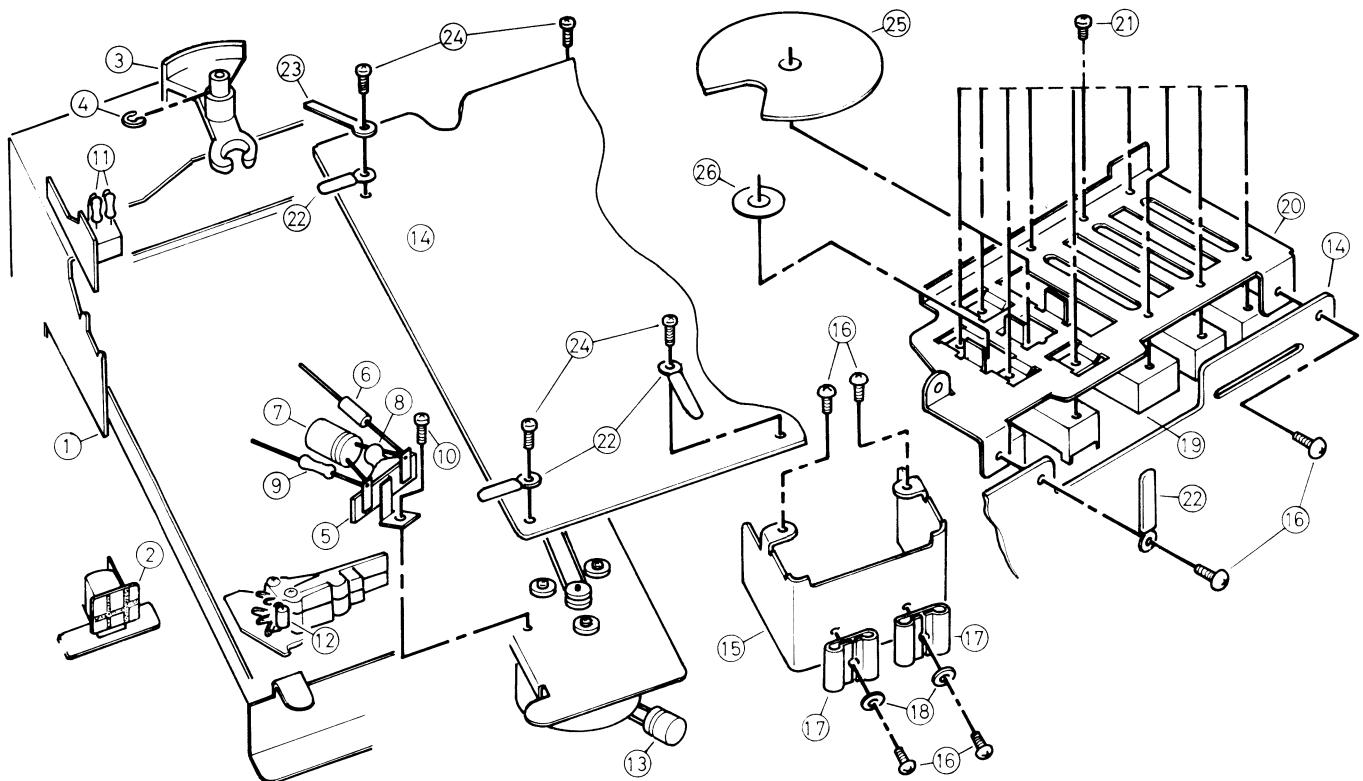


Fig. 45

Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	* —	Cassette Mechanism Ass'y		1
2	* VMW3035-401	Printed Circuit Board		1
3	*V44897-001	Toggle Lever Body		1
4	REE5000	E-Ring		1
5	OML3030-033	Lug Strip Ass'y		1
6	QRC121K-221	Composition Resistor	R412 (220Ω, 1/2W)	1
7	QEWA1CA-477	Electrolytic Capacitor	C417 (470μF, 16V)	1
8	QCS11HK-101	Ceramic Capacitor	C418 (100pF, 50V)	1
9	T41572-001	Choke Coil	L403	1
10	SPSP2606Z	Screw		1
11	QRD143K-223	Carbon Resistor	R267,367 (22kΩ, 1/4W)	2
12	10D1	Silicon Diode	D407 (J.I.R.C.)	1
13	QEWA1CA-227	Electrolytic	C431 (220μF, 16V)	1
14	* —	Circuit Board Ass'y	Amplifier	1
15	*V31139-002	Radiation Plate		1
16	SBSB3008Z	Screw		6
17	V41615-1	Radiation Plate		2
18	Q03091-105	Washer		2
19	* —	Circuit Board Ass'y	Control	1
20	*V31134-001	Bracket		1
21	SPSP2604Z	Screw		10
22	V42603-003	Wire Clamp		4
23	" -2	"		1
24	SPSP2606Z	Screw		4
25	V45039-001	Dust Cover	MODE/METER	1
26	Q03094-154	Washer	TAPE	1

Exploded View of Front Cabinet

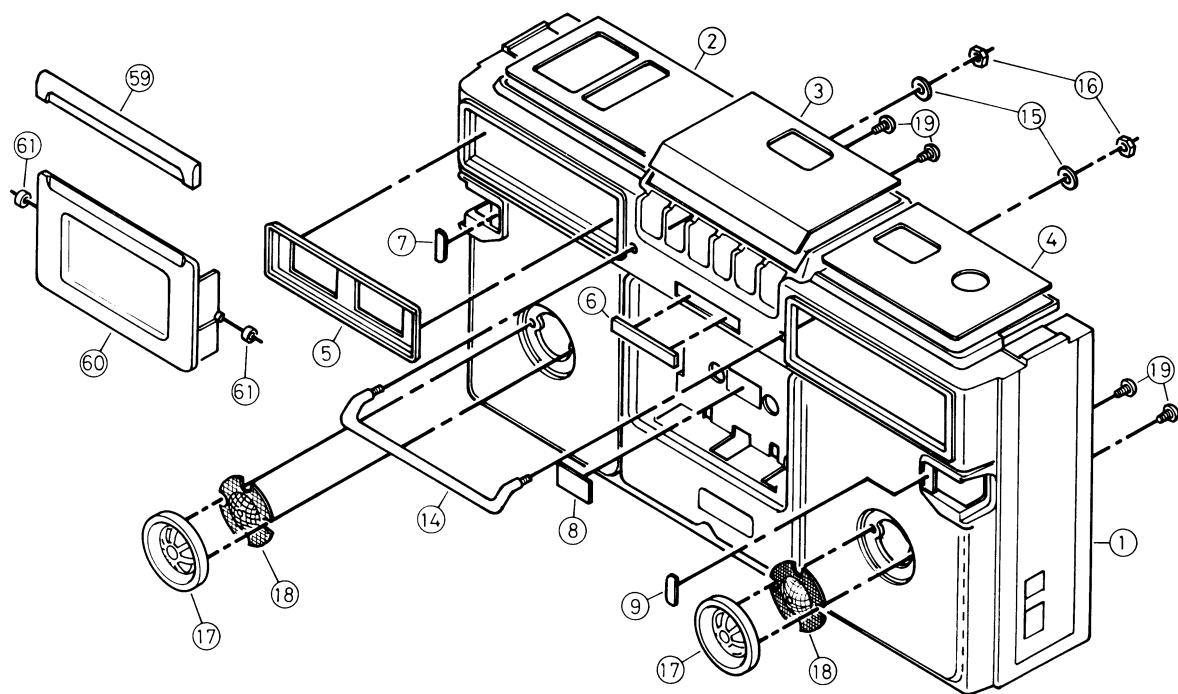


Fig. 46

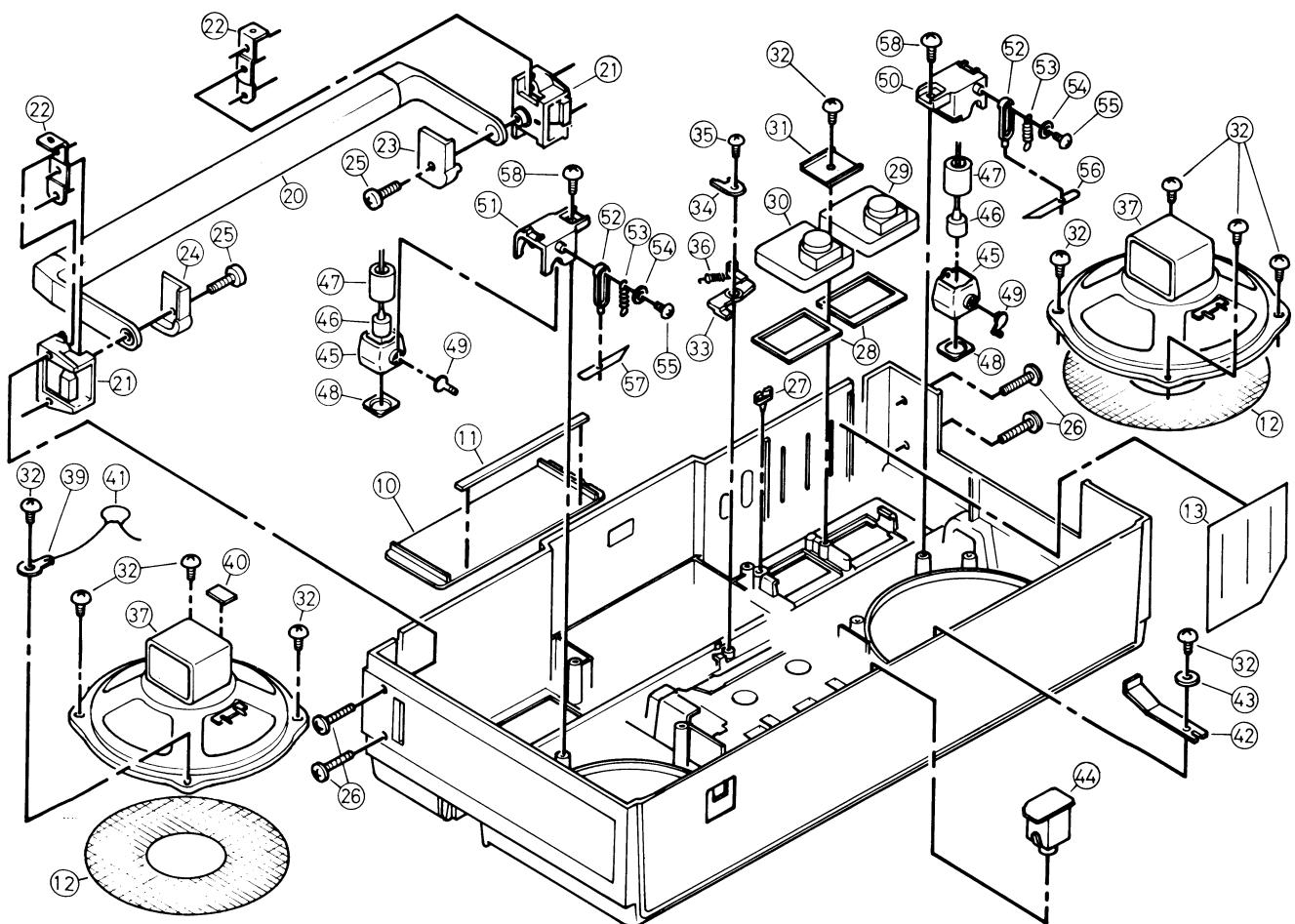


Fig. 47

Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1 ~ 13	* ZCRC717L-CBF	Front Cabinet Ass'y		1
1	* V10331-004	Front Cabinet		1
2	* V31128-002	Top Plate	Glued	1
3	* V31129-002	"	"	1
4	* V31130-002	"	"	1
5	* V44878-001	Meter Escutcheon	"	1
6	QXM2251-001	Mark	"	1
7	* V44879-003	Plate	"	1
8	V42616-2	"	"	1
9	* V44879-004	"	"	1
10	* V44877-001	Dial Lens	"	1
11	VYSA1R4-026	Spacer	Glued to Dial Lens	1
12	47115-047	Net	Heat-treated	2
13	* V44892-001	Dust Cover	Glued	1
14	* V44880-001	Protector		1
15	Q03091-138	Washer		2
16	NNB3000S	Nut		2
17	V44561-00A	Speaker Grill Escutcheon		2
18	V44564-001	Grill Net		2
19	SBSB2608Z	Screw	Glued	4
20	* V44348-00H	Handle		1
21	* V31131-001	Supporter		2
22	* V44883-001	Bracket		2
23	* V44881-001	Washer		1
24	* V44882-001	"		1
25	SPSP3014ZS	Screw		2
26	SDSP3018RS	"		4
27	V44691-001	Wire Clamp	Force-fitted	1
28	V43547-1	Indicator Rubber		2
29	V03020-053	Indicator		1
30	" -054	"		1
31	* V44893-001	Stopper		1
32	SBSB3008Z	Screw		10
33	* V31138-001	Hook Lever		1
34	* V44920-001	Hook Lever Washer		1
35	SBSB2608Z	Screw		1
36	50153-008	Spring		1
37	EAS12P89SE	Speaker		2
38			Blank No.	
39	50242-3	Terminal Lug		1
40	VYSR101-003	Spacer	Glued	1
41	QCS11HK-151	Ceramic Capacitor	C416 (150pF, 50V)	1
42	* V44772-002	Door Spring		1
43	Q03091-105	Washer		1
44	*	Circuit Board Ass'y	Headphone	1
45	* V44885-003	Microphone Case		2
46	VMME62N-004	Condenser Microphone		2
47	* V44886-001	Bushing		2
48	* V44884-002	Plate	Glued	2
49	* V44907-002	Arm		2
50	* V44890-001	Microphone Holder		1
51	* V44908-001	"		1
52	* V44887-00A	Microphone Lever		2
53	* V44921-001	Spring		2
54	Q03091-158	Washer		2
55	SBSB2606Z	Screw		2
56	* V44899-001	Blind		1
57	" -002	"		1
58	SBSB3010Z	Screw		2
59	* V31136-001	Head Cover	Force-fitted	1
60	* V31135-00C	Cassette Case		1
61	V41405-004	Rubber Ring		2

Exploded View of Rear Cabinet

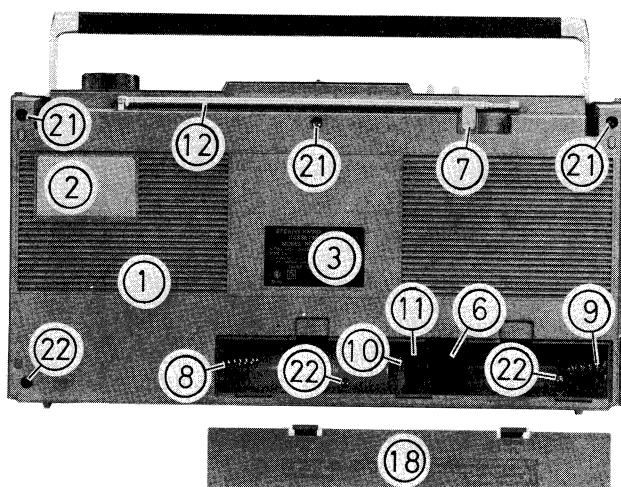


Fig. 48

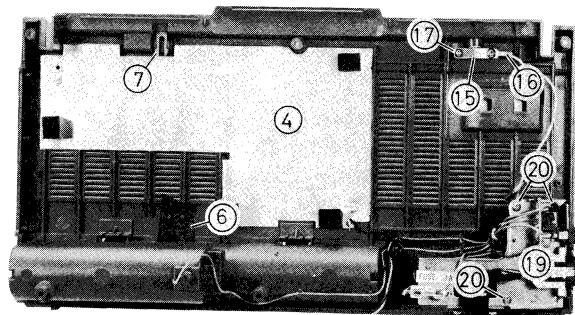
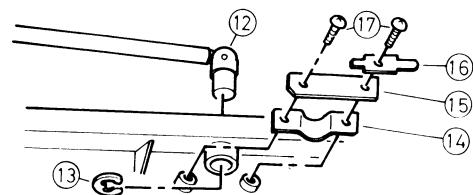


Fig. 49

Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1 ~ 6	* ZCRC717L-CBR	Rear Cabinet Ass'y		1
1	* V10332-002	Rear Cabinet		1
2	* V44852-003	Plate		1
3	* VYN5033-002CA	Name Plate		1
4	* V44905-00B	Shield		1
5		Blank No.		1
6	V41583-007	Tape	Glued	1
7	V44618-001	Antenna Retainer	Glued	1
8	53738-1	Spring	Force-fitted	1
9	V43209-003	"	"	1
10	V42989-009	Contact	"	1
11	SBSB3008Z	Screw		1
12	QZR4234-001U	Rod Antenna		1
13	REE6000	E-Ring		1
14	V44195-002	Rod Antenna Holder		1
15	V44196-003	"		1
16	V41208-003	Tab		1
17	SBSB3008Z	Screw		1
18	* ZCRC717L-BCA	Battery Cover Ass'y		2
19	* _____	Power Supply Ass'y		1
20	SBSB3010Z	Screw		1
21	SDSP3020RS	"		3
22	SDSB3020R	"		3

Final Packing Ass'y

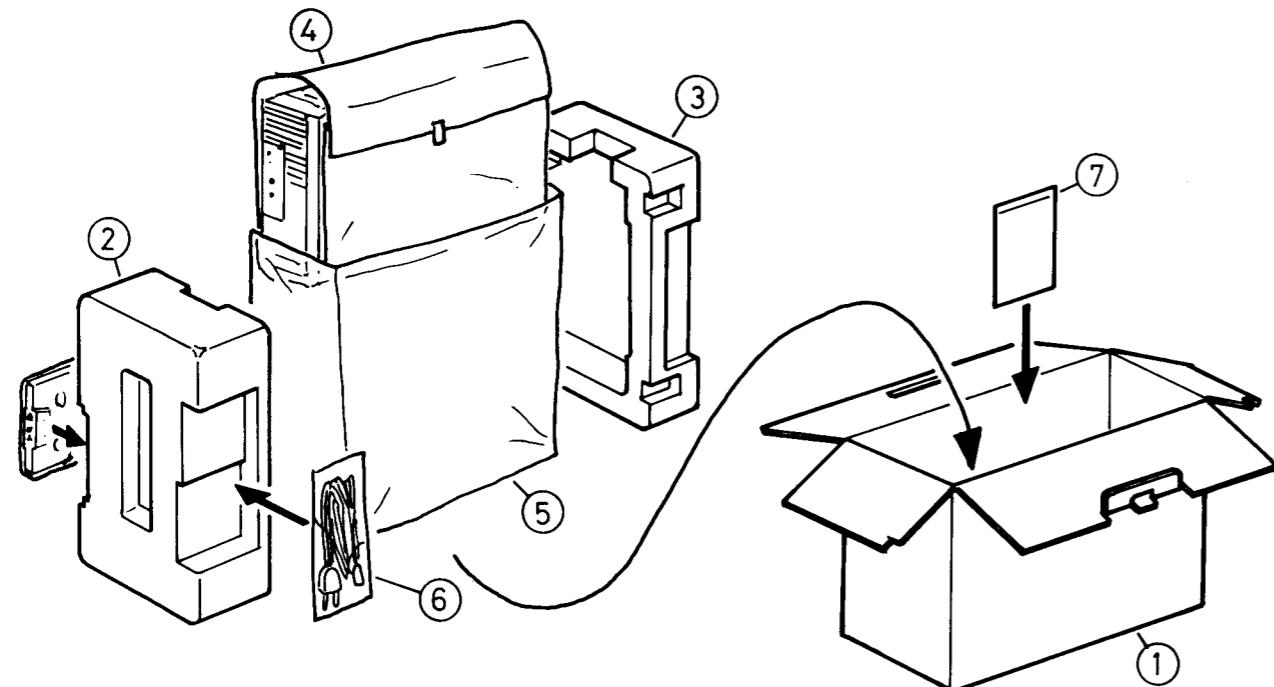


Fig. 50

Accessories

Parts No.	Parts Name	Description	Q'ty
QMP3950-183 V04056-1 V43338-1	Power Cord Shorting Plug Head Cleaning Stick	for Erasing	1 1 2
VGT12S2-J02 VNM0657-001 VNC6301-001	Cassette Tape Instruction Book Trouble Shooting Chart	Side A: Recorded, Side B: Blank	1 2 1
MU-103E HP-5K HM-200E DCT-912K	Dynamic Microphone Headphones Binaural Headphone-Mikes Car Adaptor	Unidirectional (Option) (Option) (Option) 12V → 6/9V	(Option) (Option) (Option) (Option)

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	* VP2339-007	Carton Box		1
2	* VP1637-001	Side Cushion		1
3	* VP1636-001	"		1
4	VHPJ079-036	Wrapping Paper		1
5	OPGA060-05005	Cabinet Cover		1
6	OPGA012-02505	Bag (Polyethylen Film)	for Power Cord	1
7	OPGB024-03404	"	for Accessories	1

— Continued from page 21 —

Ref. No.	Parts No.	Parts Name	Description	Q'ty
115	TFB338445-01	Plate		1
116	*9700106T	Rubber Sheet		1
117	RDS3000F	CS-Ring		1
118	*9701801T	Switch Bracket		1
119	*7841601T	Leaf Switch		1
120	SDSP2606Z	Screw		1
121	LPSP2606Z	Ass'y Screw		2
122	WNS2600Z	Washer		1
123	4081210T	Lug		1

Difference of Model RC-717LB

Difference between RC-717LB and RC-717L is the power supply section.
The former model is equipped with the fuse for primary circuit.

Exploded View of Power Supply Ass'y

Wiring Connection

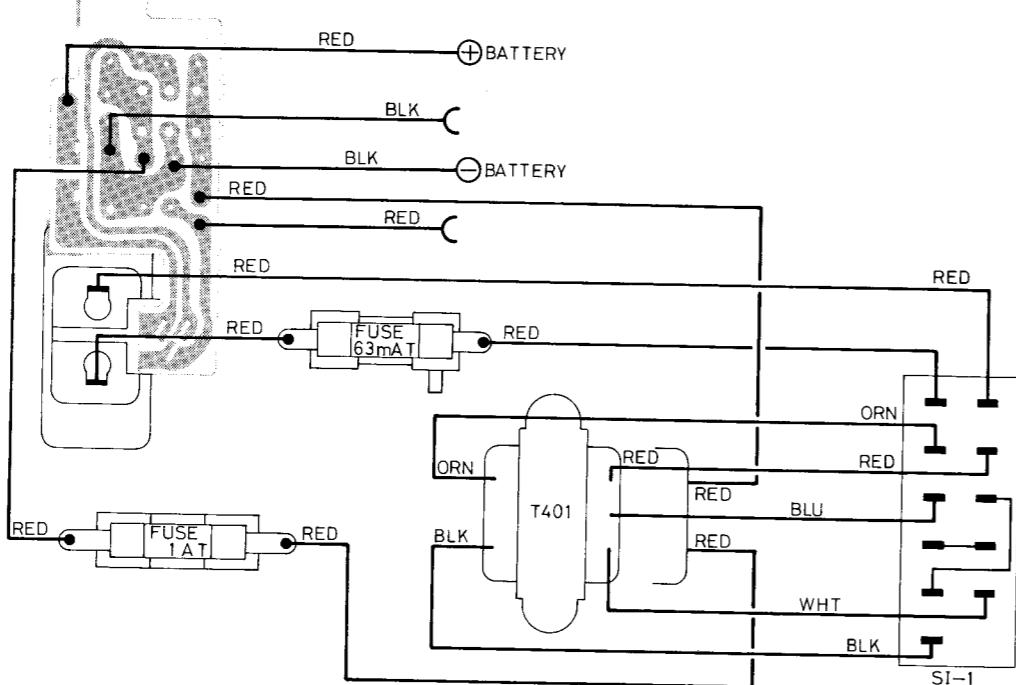


Fig. 51

Schematic Diagram of RC-717LB (Amplifier)

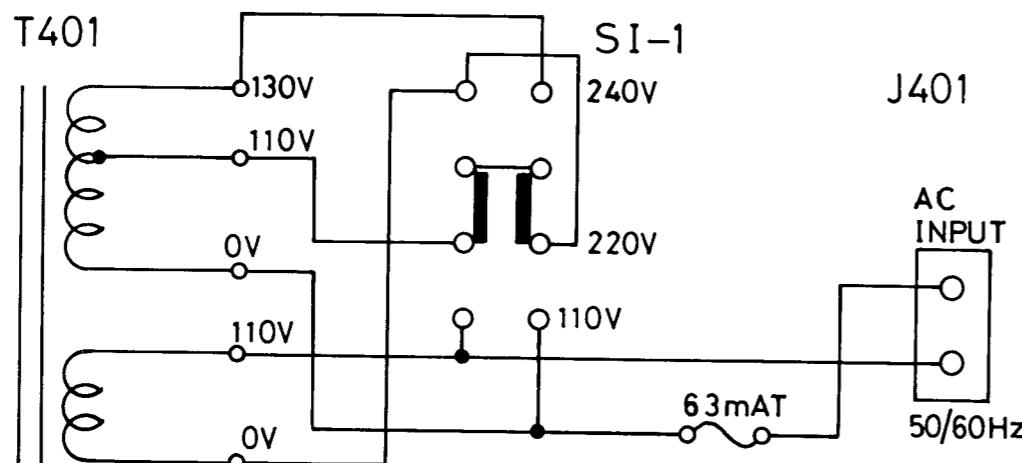


Fig. 52

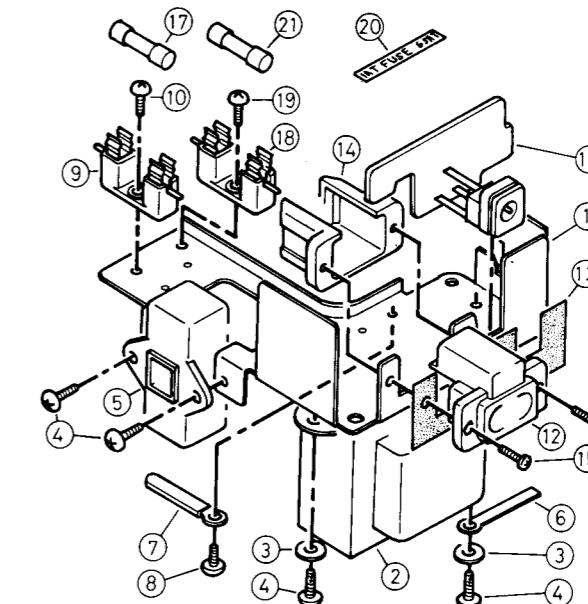


Fig. 53

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	V31152-003	AC Bracket	T401	1
2	VTP48N2-90B	Power Transformer		1
3	Q03091-138	Washer		2
4	SBSB3008Z	Screw		4
5	QSS2325-005	Slide Switch	SI-1	1
6	V42603-2	Wire Clamp		1
7	V42603-003	Wire Clamp		1
8	SBSB2608Z	Screw		1
9	QMG1321-002	Fuse Holder Ass'y		1
10	SBSB2608Z	Screw		1
11		Blank No.		
12	QMC0263-001	AC Socket Ass'y	J401	1
13	V44896-001	Spacer		1
14	V44399-00D	Cap		1
15	SPSP2608Z	Screw		2
16		Circuit Board Ass'y	Power Supply	1
17	QMF51A2-1R0	Fuse	1AT	1
18	QMG1321-001	Fuse Holder Ass'y		1
19	SBSB2608Z	Screw		1
20	V42816-010	Fuse Label		1
21	QMF51A2-R063	Fuse	Sticker 63mAT	1

Note: The parts marked Δ in the Description column are critical components for safety. Use the specified parts, when changing the critical components, never use equivalent parts.

Exploded View of Rear Cabinet (Refer to Page 28)

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1 ~ 6 3	* ZCRC717LB-CBR * VYN5033-003CA	Rear Cabinet Ass'y Name Plate	Glued	1 1

Accessories (Refer to Page 29)

Parts No.	Parts Name	Description	Q'ty
QMP9017-006 QZL1002-003	Power Cord Warning Label	△ (Critical Component) △ (Critical Component)	1 1

JVC

Supplementary **SERVICE MANUAL**

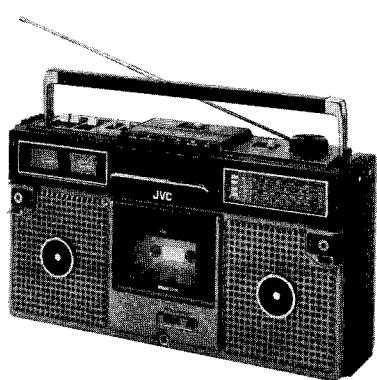
MODEL

RC-717L,LB

FM-LW-MW-SW
4-BAND RADIO
STEREO CASSETTE
RECORDER

Notice:

The tuner and amplifier circuit boards will be changed in the midway of production to mount the parts soldered on the copper side of circuit board on the component side.



The circuit boards will be changed as follows.

RC-717L

Tuner Circuit Board
After serial No. 10260501

Amplifier Circuit Board
After serial No. 10260001 except serial Nos. between 11260501 and 11262000

RC-717LB

Tuner Circuit Board
From the first of production

Amplifier Circuit Board
After serial No. 11220001

Schematic Diagram of RC-717L,LB (Tuner)

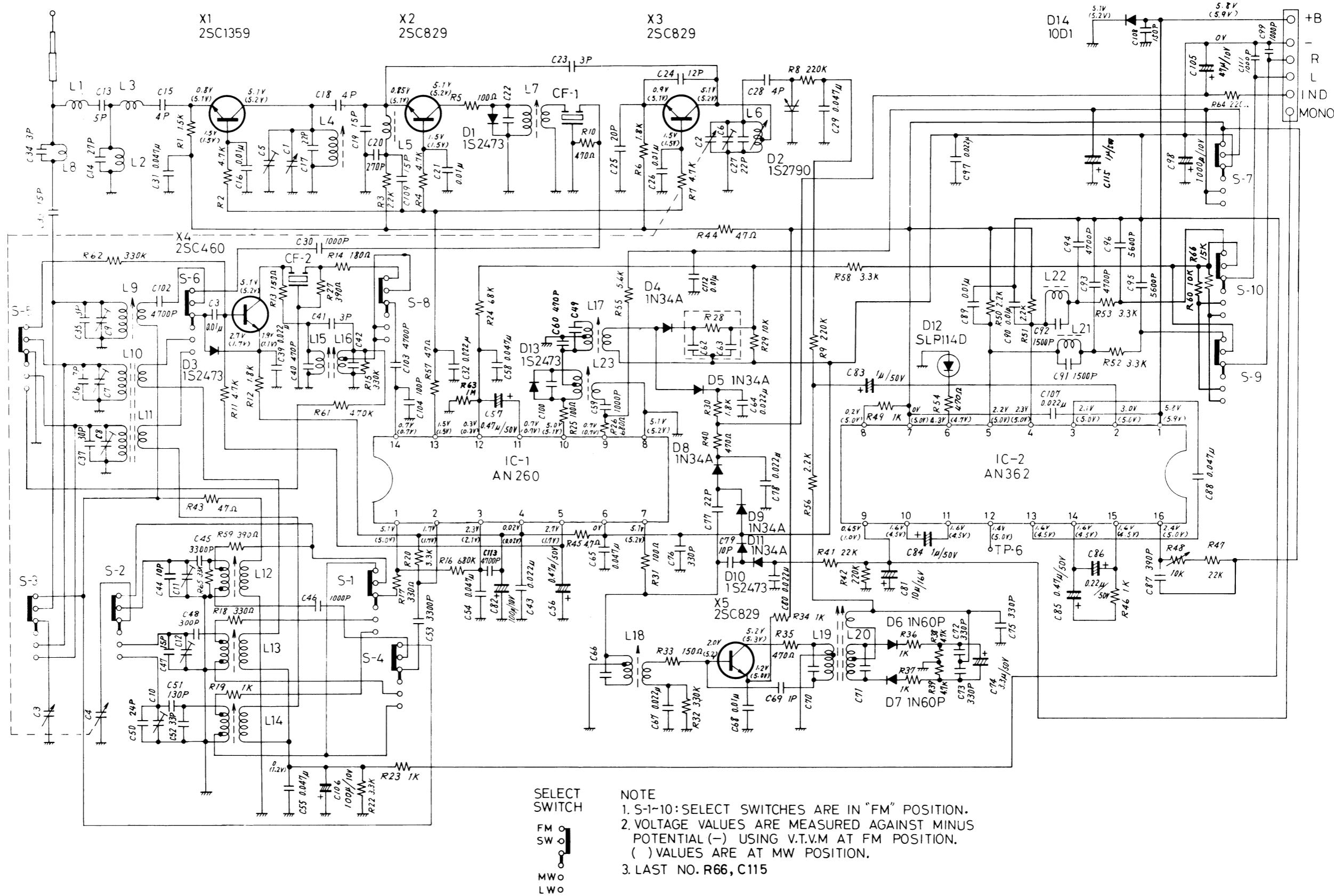


Fig. 1

Tuner Circuit Board Ass'y

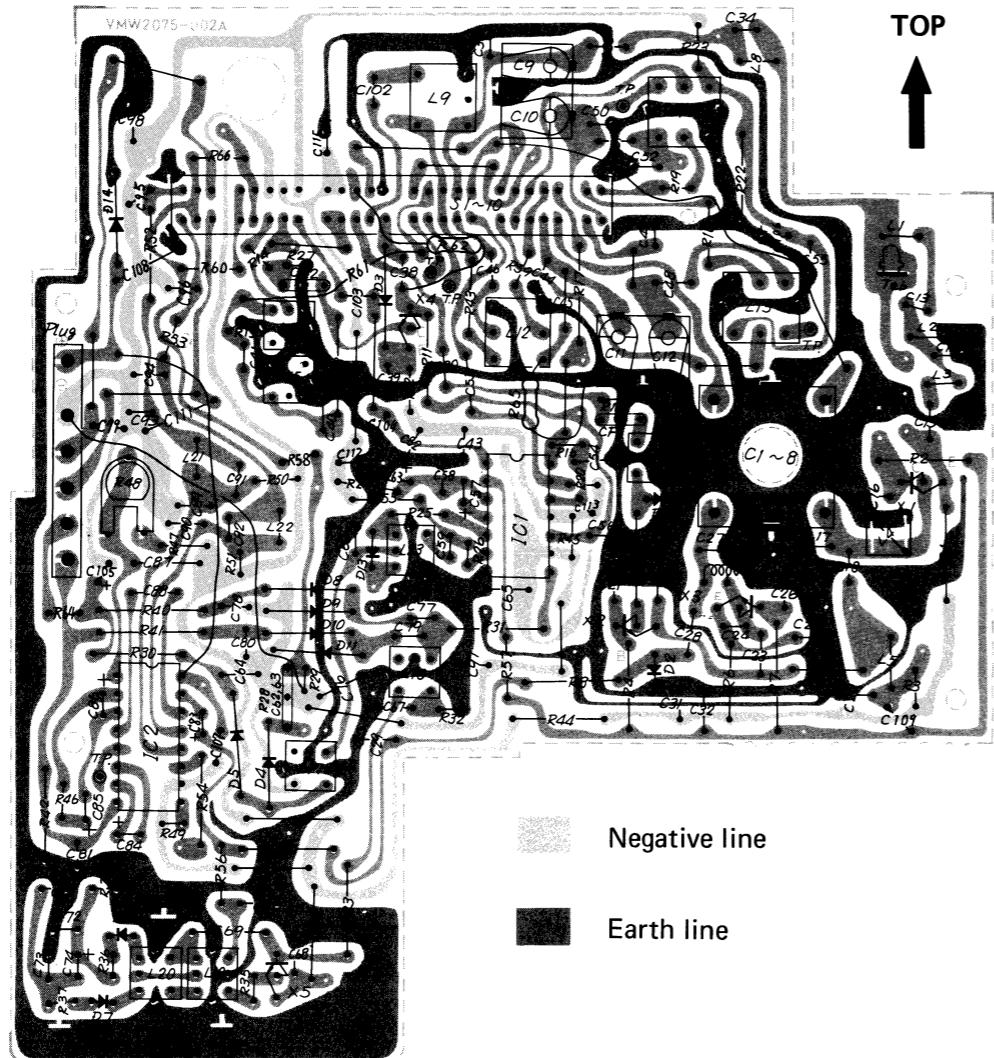


Fig. 2

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X1, X2,3,5 X4	2SC1359(B) 2SC829(C) 2SC460(C)	Silicon (MATSUSHITA) " (") " (HITACHI)	0.25W " 0.2W	300MHz 230MHz "

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC1	AN260	Integrated Circuit	MATSUSHITA (FM/AM IF)
IC2	AN362	"	" (MPX)
D1,3,10,13	1S2473	Silicon Diode	TOYO DENGU
D2	1S2790	Variable Capacitance Diode	HITACHI
D4,5	1N34A	Germanium Diode	"
D6,7	1N60P	"	"
D8,9,11	1N34A	"	"
D14	10D1	Silicon Diode	J.I.R.C.

Resistors

Ref. No.	Parts No.	Parts Name	Description
R1	QRD141K-152	Carbon	1.5kΩ 1/4W
R2,4,7,11	" -472	"	4.7kΩ "
R3	" -222	"	2.2kΩ "
R5	" -101	"	100Ω "
R6,12	QRD143K-182	"	1.8kΩ "
R8,9	QRD141K-224	"	220kΩ "
R10	QRD143K-471	"	470Ω "
R13	QRD141K-151	"	150Ω "
R14	QRD143K-181	"	180Ω "
R15	" -334	"	330kΩ "
R16	" -684	"	680kΩ "
R17	QRD141K-331	"	330Ω "
R18	QRD143K-331	"	" "
R19,23	" -102	"	1kΩ "
R20	" -332	"	3.3kΩ "
R22	QRD141K-332	"	" "
R24	QRD143K-683	"	68kΩ "
R25	" -101	"	100Ω "
R26	" -681	"	680Ω "
R27	" -391	"	390Ω "
R28	03126-15	CR Block	includes C62,63
R29	QRD143K-103	Carbon	10kΩ 1/4W
R30	QRD141K-182	"	1.8kΩ "
R31	" -101	"	100Ω "
R32	QRD143K-334	"	330kΩ "
R33	QRD141K-151	"	150Ω "
R34	" -102	"	1kΩ "
R35	QRD143K-471	"	470Ω "
R36,37,46,49	" -102	"	1kΩ "
R38,39	" -472	"	4.7kΩ "
R40,54	QRD141K-471	"	470Ω "
R41	" -223	"	22kΩ "
R42	" -224	"	220kΩ "
R43,57	QRD143K-470	"	47Ω "

Ref. No.	Parts No.	Parts Name	Description	
R44	QRD141K-470	Carbon	4.7Ω	1/4W
R45	QRD143K-4R7	"	4.7Ω	"
R47	" -223	"	22kΩ	"
R48	QVP8A0B-014A	Variable	10kΩ	B-curve
R50,51	QRD143K-222	Carbon	2.2kΩ	1/4W
R52	QRD141K-332	"	3.3kΩ	"
R53,58	QRD143K-332	"	5.6kΩ	"
R55	" -562	"	2.2kΩ	"
R56	QRD141K-222	"	390Ω	"
R59	QRD143K-391	"	10kΩ	"
R60	" -103	"	470kΩ	"
R61	QRD141K-474	"	330kΩ	"
R62	QRD143K-334	"	1MΩ	"
R63	" -105	"	220Ω	"
R64	" -221	"	33kΩ	"
R65	QRD143K-333	"	15kΩ	"
R66	" -153	"		

Capacitors

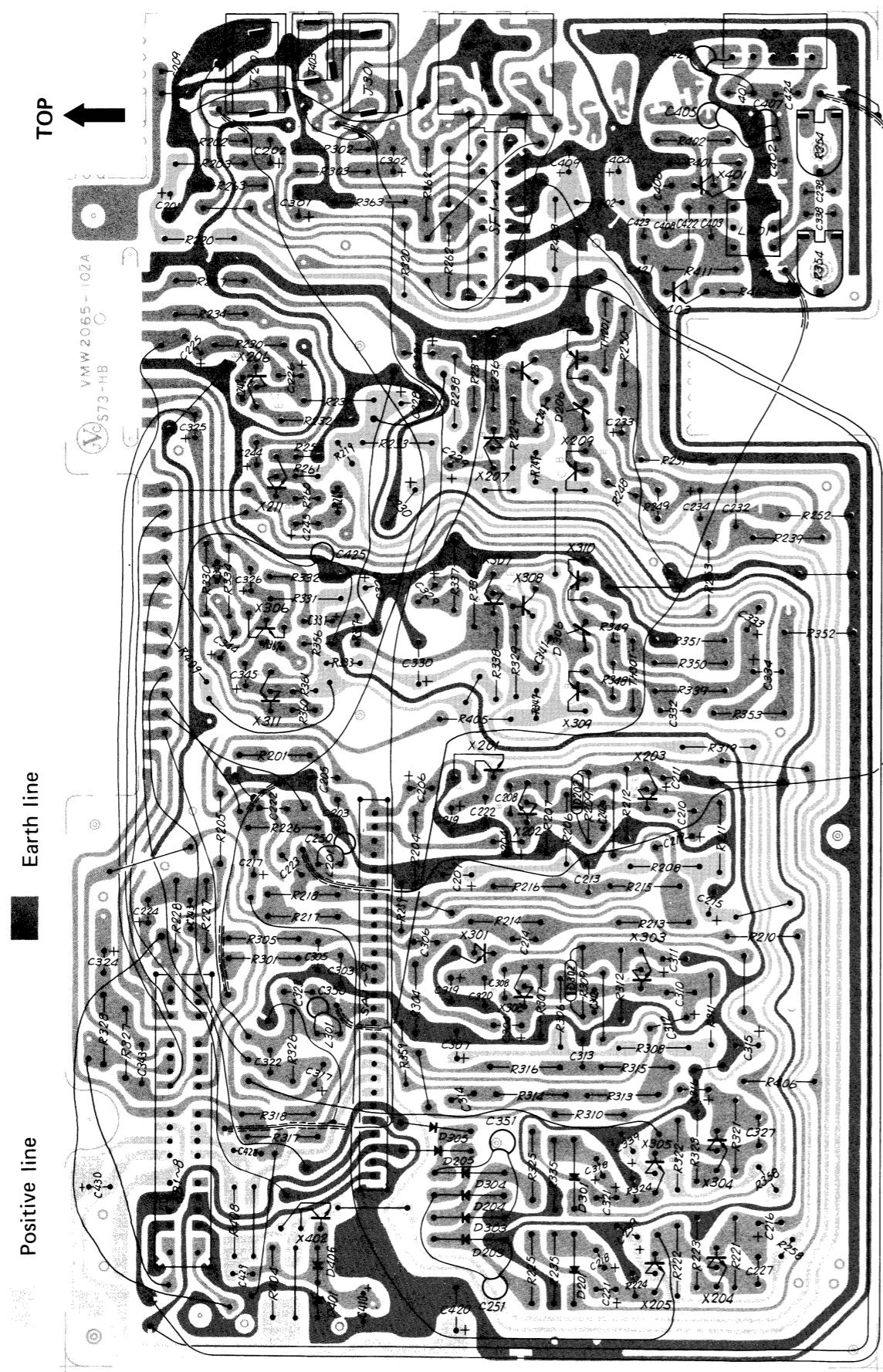
Ref. No.	Parts No.	Parts Name	Description	
C1~8	QAP1224-504	Variable		
C9-10,11-12	QAT2002-001	Trimmer		
C13	QCS11HK-5R0	Ceramic	5pF	50V
C14	" -270	"	27pF	"
C15,18,28	QCS11HJ-4R0	"	4pF	"
C16,21,26	QCF11EZ-103	"	0.01μF	25V
C17	QCS11HK-220	"	22pF	50V
C19	" -150	"	15pF	"
C20	" -271	"	270pF	"
C23,34	QCS11HJ-3R0	"	3pF	"
C24	" -120	"	12pF	"
C25	QCS11HK-200	"	20pF	"
C27	QCT05CH-220	"	22pF	"
C29	QCF11EZ-473	"	0.047μF	25V
C30	QCY41HK-102	"	1000pF	50V
C31	QFM41HM-473	Mylar	0.047μF	"
C32,39,43	" -223	"	0.022μF	"
C33,47	QCS11HK-150	Ceramic	15pF	"
C35,36,41	" -3R0	"	3pF	"
C37	" -300	"	30pF	"
C38	QFM41HM-103	Mylar	0.01μF	"
C40	QCS11HK-471	Ceramic	470pF	"
C44	" -100	"	10pF	"
C45	QFS41HJ-332	Polystyrol	3300pF	"
C46,59	QCY41HK-102	Ceramic	1000pF	"
C48	QCS11HK-301	"	300pF	"
C50	" -240	"	24pF	"
C51	" -131	"	130pF	"
C52	" -330	"	33pF	"
C53	QCY41HK-332	"	3300pF	"
C54	QFM41HM-473	Mylar	0.047μF	"
C55,58,65	QCF11EZ-473	Ceramic	"	25V
C56,57	QEWF41HA-474	Electrolytic	0.47μF	50V
C60	QCS11HK-471	Ceramic	470pF	"
C62,63	03126-15	CR Block	includes R28	
C64,67	QCF11EZ-223	Ceramic	0.022μF	25V
C68	" -103	"	0.01μF	"

Ref. No.	Parts No.	Parts Name	Description	
C69	QCS11HK-1R0	Ceramic	1pF	50V
C72,73,75,76	" -331	"	330pF	"
C74	QEWF41HA-335	Electrolytic	3.3μF	"
C77	QCS11HK-220	Ceramic	22pF	"
C78,80	QCF11EZ-223	"	0.022μF	25V
C79	QCS11HK-100	"	10pF	50V
C81	QEWF41CA-106	Electrolytic	10μF	16V
C82,106	QEWF41AA-107	"	100μF	10V
C83,84	QEWF41HA-105	"	1μF	50V
C85	" -474	"	0.47μF	"
C86	QEC81HM-224	"	0.22μF	"
C87	QFS21HJ-391	Polystyrol	390pF	"
C88	QFM41HM-473	Mylar	0.047μF	"
C89,90	" -103	"	0.01μF	"
C91,92	QCY41HK-152	Ceramic	1500pF	"
C93,94	" -472	"	4700pF	"
C95,96	" -562	"	5600pF	"
C97,107	QFM41HM-223	Mylar	0.022μF	"
C98	QEWF41AA-108	Electrolytic	1000μF	10V
C99	QCY41HK-102	Ceramic	1000pF	50V
C102,103	" -472	"	4700pF	"
C104	QCS11HK-101	"	100pF	"
C105	QEWF41AA-476	Electrolytic	47μF	10V
C108	QCS11HK-151	Ceramic	150pF	50V
C109	" -150	"	15pF	"
C111	QCY41HK-102	"	1000pF	50V
C112	QCF11EZ-103	"	0.01μF	25V
C113	QFM41HM-472	Mylar	4700pF	50V
C115	QEWF41HA-105	Electrolytic	1μF	"

Others

Ref. No.	Parts No.	Parts Name	Description	
L1,3	V03047-21	Coil	FM Antenna	
L2	" -10	"	" "	
L4	V03105-018	"	RF	
L5	03226-1K	Inductor	IF trap	
L6	V03080-015	Coil	Osc.	
L7	VQT7F12-103	I.F.T	FM	
L8	V03047-11	Coil	SW Antenna	
L9	VQR1001-202	"	" "	
L12	V03101-025	"	Osc.	
L13	VQM1T03-201	"	MW Osc.	
L14	VQL1T03-201	"	LW "	
L15	VQT7A10-101	I.F.T.	AM	
L16	VQT7A11-101	"	"	
L17	" -302	"	"	
L18	V03068-23	"	FM	
L19	VQT7F15-502	"	"	
L20	VQT7F16-602	"	"	
L21,22	03226-18	Inductor		
L23	VQT7F11-202	I.F.T.	FM	
CF1,2	V03059-3	Ceramic Filter		
S1~10	QSS0023-001	Slide Switch		
Plug	QMC0629-001	Plug Ass'y	Band Select	
Tab	V43895-1	Tab	6-pin	
T.P.	V04041-1	Test Point		

Amplifier Circuit Board Ass'y



Ref. No.	Parts No.	Parts Name	Description	
R250,350	QRD141K-221	Carbon	220Ω	1/4W
R251,252,351,352	" -101	"	100Ω	"
R253,353	" -182	"	1.8kΩ	"
R254,354	QVP8A0B-054A	Variable	50kΩ	B-curve
R256,356	QRD143K-102	Carbon	1kΩ	1/4W
R257,357	QRD141K-561	"	560Ω	"
R258,358	QRD143K-330	"	33Ω	"
R259,359	QRD141K-472	"	4.7kΩ	"
R260,360	QRD143K-474	"	470kΩ	"
R261,361	" -562	"	5.6kΩ	"
R262,362	QRD141K-105	"	1MΩ	"
R263,363	" -472	"	4.7kΩ	"
R266,366	QRD121J-4R7	"	4.7Ω	1/2W
R267,367	QRD143K-223	"	22kΩ	1/4W
R357	" -561	"	560Ω	"
R401,408,410	QRD141K-4R7	"	4.7Ω	"
R402,411	" -333	"	33kΩ	"
R403	" -100	"	10Ω	"
R404	" -221	"	220Ω	"
R405	" -473	"	47kΩ	"
R406	" -222	"	2.2kΩ	"
R409	" -473	"	4.7kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C201,206,301,306	QEWA1AA-476	Electrolytic	47μF	10V
C202,217,302,317	QEWA1HA-475	"	4.7μF	50V
C203,303	QCS11HK-331	Ceramic	330pF	"
C204,304	QEWA1HA-474	Electrolytic	0.47μF	"
C205,305	QCY41HK-222	Ceramic	2200pF	"
C207,307	QEWA1AA-477D11	Electrolytic	470μF	10V
C208,308	QCS11HK-101	Ceramic	100pF	50V
C209,309	" -471	"	470pF	"
C210,310	" -151	"	150pF	"
C211,311	QEWA1AA-476	Electrolytic	47μF	10V
C212,216,312,316	QEWA1CA-106	"	10μF	16V
C213,313	QFM41HK-103	Mylar	0.01μF	50V
C214,314	" -153	"	0.015μF	"
C215,219,315,319	QEWA1AA-227D09	Electrolytic	270μF	10V
C218,221,318,321	QEWA1HA-105	"	1μF	50V
C220,223,320,323	QCS11HK-471	Ceramic	470pF	"
C222,322	QCS11HJ-681	"	680pF	"
C224,324	QEC81HM-224	Electrolytic	0.22μF	"
C225,226,325,326	QEWA1HA-475	"	4.7μF	"
C227,327	QCS11HK-471	Ceramic	470pF	"
C228,234,328,334	QEWA1AA-477D11	Electrolytic	470μF	10V
C229,233,329,333	" -107	"	100μF	"
C230,330	QEWA1CA-228	"	2200pF	16V
C231,331	QEWA1HA-475	"	4.7μF	50V
C232,332	QCY41HK-472	Ceramic	4700pF	"
C238,338	" -222	"	2200pF	"
C239,339	QEWA1AA-227D09	Electrolytic	220μF	10V
C241,341	QCY41HK-102	Ceramic	1000pF	50V
C242,342	QCS11HK-471	"	470pF	"
C243,343	" -560	"	56pF	"

Ref. No.	Parts No.	Parts Name	Description	
C244,245,344,345	QEWA1HA-105	Electrolytic	1μF	50V
C249,349	QCS11HK-470	Ceramic	47pF	"
C250,350	QCS11HJ-510	"	51pF	"
C251,351	QCF11EZ-103	"	0.01μF	25V
C401	QCY41HK-103	"	0.01μF	50V
C402	QFM41HM-472	Mylar	4700pF	"
C403,406	" -223	"	0.022μF	"
C404	QEWA1AA-107	Electrolytic	100μF	10V
C405,407,408	QCY41HK-332	Ceramic	3300pF	50V
C409	QEWA1AA-227D09	Electrolytic	220μF	10V
C410	" -108	"	1000pF	"
C420	QEWA1CA-228	"	2200pF	16V
C421	QFM41HK-223	Mylar	0.022μF	50V
C422,424	QCY41HK-332	Ceramic	3300pF	"
C423	" -102	"	1000pF	"
C425	QCS11HK-151	"	150pF	"
C427	QCY41HK-222	"	2200pF	"
C428	QCS11HK-331	"	330pF	"
C429	QCF11EZ-223	"	0.022μF	25V
C430	QEWA1CA-336	Electrolytic	33μF	16V

Others

Ref. No.	Parts No.	Parts Name	Description	
L201,301	03226-17	Inductor		
L401	V03083-019	Coil	Bias Osc.	
L402	03226-2	Inductor	Play/Record	
SA1~9	QSS9201-001A	Slide Switch	Function	
SB1~8	QSS8301-001	"	DIN	
SF1~4	QSP4210-061	Push Switch		
J201,202,301,302	V03104-057	Jack Board Ass'y		
403,SD1				
J406	QMC9014-005	DIN Socket Ass'y		
Tab	V43895-1	Tab		
Clamp	V44691-001	Wire Clamp		

Schematic Diagram of RC-717L,LB (Amplifier)

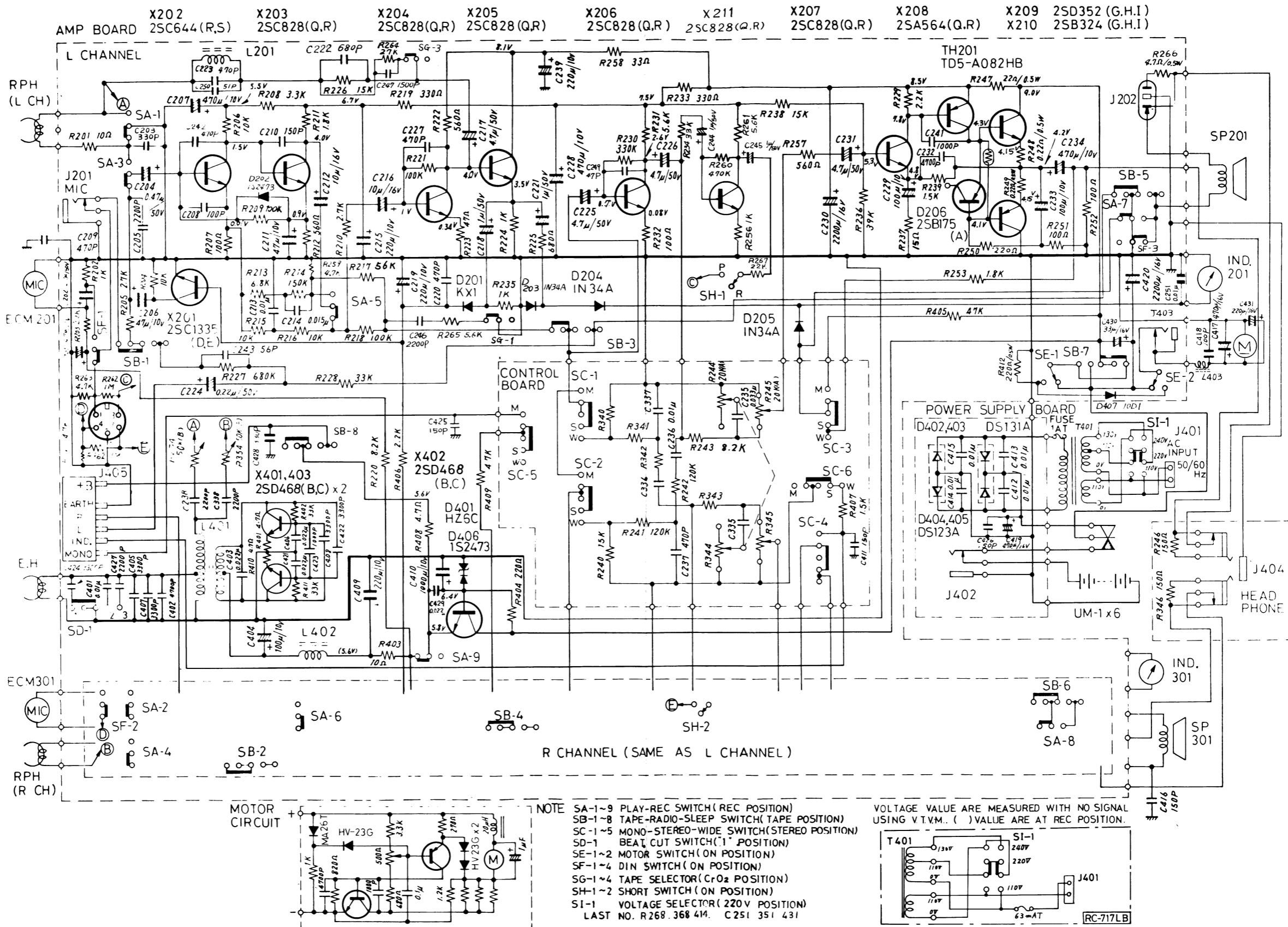


Fig.